ORIGINAL

EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE PROSPECT VALLEY HIGHWALL #4 PROJECT RFQ NO. DEP14433

Prepared for:

West Virginia Department of Environmental Protection

Department of Environmental Protection
Office of Abandoned Mine Lands and Reclamation
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CONTACT: Mr. Dana Burns, Vice President

Signature: Lang L. Burns

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Project No. 0101-08-0501

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EXPRESSION OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES FOR THE PROSPECT VALLEY HIGHWALL #4 PROJECT RFQ NO. DEP14433

1.0 QUALIFICATIONS

1.1 Corporate History and Experience

Potesta & Associates, Inc. (POTESTA) proposes to provide professional engineering design services and construction monitoring services to the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands & Reclamation (WVDEP, AML). These services will consist of attendance at pre-bid and pre-construction conferences, construction monitoring, providing an updated revised Engineer's Cost Estimate, review of plan and specification and other miscellaneous services as may be required for the Prospect Valley Highwall #4 Project located in Harrison County, West Virginia. The project will consist of:

- Installing wet mine seals in five mine portals. Address other portals, if any, discovered during construction.
- Constructing drainage control channels to carry surface runoff and mine discharge water safely off-site.
- Removal of all debris and household trash from the site to an approved disposal site.
- Conditioning and revegetation of areas disturbed during construction.

POTESTA is an engineering and environmental consulting firm providing professional services to deliver innovative, cost-effective solutions to complex problems. Our firm is multi-disciplinary and has a diversified practice covering engineering (civil, chemical, environmental, geotechnical, mechanical, and mining), permitting, site characterization and remediation, and general environmental consulting. Civil/site and geotechnical engineering are areas of extensive expertise at POTESTA. We have worked on numerous large projects (university dorms to power plant foundations) throughout the region. Our 12 registered professional engineers have over 225 years of experience among them and are supported by a large group of engineers, designers, surveyors and a landscape architect. Regulatory liaison and environmental compliance are areas of exceptional strength for POTESTA as the President of the company is a former director of the West Virginia Department of Natural Resources, and a Vice President is a former director of the West Virginia Division of Environmental Protection.

Our clients include state, local, and federal government agencies, mining companies, manufacturers, utility companies, waste management companies, chemical companies, architects, attorneys, financial institutions, insurance companies, land developers, and construction companies.

We carry a full line of insurance coverage including general liability, errors and omissions, and workers' compensation; Insurance and Workers Compensation Certificates are included in **Appendix A**. We also have quality control procedures to assist in providing our clients with quality projects.

POTESTA offers the following professional services.

- ► 404 Permit Preparation and Negotiation
- Acid Mine Drainage Control
- ► Asbestos Inspection
- ► Benthic and Biological Studies
- CADD Services (AutoCAD 2007, Various Software Design Packages, Digitizing and Plotting)
- ► Chemical Engineering
- Civil Engineering
- ► Clean Air Act Compliance
- ► Construction Monitoring
- ► Corporate Environmental Management
- Design of Slurry Impoundments and Refuse Disposal Sites
- ► Dewatering Plans
- ► Environmental Engineering
- ► Environmental Impact Studies
- ► Environmental Site Assessments
- ► Environmental Audits
- ► Environmental Engineering
- ► Erosion and Sedimentation Control Plans
- ► Expert Witness and Litigation Support
- ► Feasibility Studies
- ► Foundation Design
- Geological Services
- ► Geotechnical Engineering
- ► Ground and Surface Water Sampling
- ► Groundwater Investigation and Remediation
- ► Groundwater Protection Plans
- Hazardous Waste Management
- Hydrologic and Hydraulic Evaluations
- ► In-Situ and Ex-Situ Biostimulation/Bioaugmentation
- Landfill Design and Land Use and Natural Resource Planning
- ► Landfill Closure Plans
- ► Land Use and Natural Resource Planning

- Mining Engineering
- Multimedia Sampling (Air, Fly Ash, Rock, Soil, Water)
- Pollution Prevention and Waste Minimization Planning
- Permitting (Air, FERC, Fly Ash Haulback, Mining, NPDES, Quarry and Solid and Hazardous Waste)
- Post Reclamation Land Uses
- Pre-Blast and Pre-Subsidence Surveys
- Preparation of Construction Documents (Calculations Brief, Construction Drawings, Contractor's Bid Sheet, Engineer's Cost Estimate, QA/QC Manual and Technical Specifications)
- Reclamation Design and Planning
- Reclamation Liability Assessments
- Regulatory Liaison Services
- Risk-Based Environmental Assessment
- SARA Title III, TIER II and Form R Inventory and Reporting
- ► Sewer Line Design
- Site Characterization and Remediation Planning
- Site Design/Planning
- ► Soil Science/Agronomy
- Spill Prevention Control and Countermeasure Plans
- Stabilization and Closure of Waste Impoundments
- Stormwater Management and Permitting
- Stream Benthic Macro-Invertebrate Surveys and Toxicity Evaluations
- Stream and Water Restoration
- ► Subsidence Studies
- Subsurface Investigations
- Surface and Groundwater Monitoring, Statistical Analysis and Reporting
- Surveying (Traditional and Global Positioning System)

- UST Closure and Site Remediation
- UST Installation Monitoring
- ► Waste Facility Permitting and Design
- Waste Disposal Design

- ▶ Water Line Design
- ► Water/Wastewater Treatment Design
- Wetland Investigation and Delineation, Mitigation Design and Monitoring

POTESTA has the following staff in our Charleston, West Virginia office:

- Engineers, Including 10 Professional Engineers
- 19 Scientists (Biologists, Ecologists, Environmental Scientists, Etc.)
- 3 Geologists/Hydrogeologists/Geological Scientist
- 1 Hydrologist
- 7 Surveyors
- 7 CADD Operators/Designers
- 7 Technicians/Construction Monitors
- 2 Chemists
- 18 Support and Other Staff

POTESTA, since starting in 1997, has grown to almost 100 employees in three offices. Included are 12 registered professional engineers (R.P.E.'s), three registered professional licensed land surveyors (P.L.S.'s), one registered professional geologist, and two PhD's whose specialties include aquatic biology and water quality. POTESTA has assembled a team that has historically served WVDEP, AML on numerous AML projects. In fact our staff has worked on over 70 AML projects for WVDEP (and more in other states) on four different WVDEP, AML contracts dating back into the mid 1980's. We have an ongoing workload with WVDEP, AML.

POTESTA will perform the work for this project from our Charleston, West Virginia office. Our proximity to WVDEP's Charleston office will facilitate immediate response to your needs and allow meetings to be attended within minutes notice; in addition, we can draw upon support from our Morgantown office which also has experience with AML projects. POTESTA emphasizes that we will make a priority commitment to this project.

POTESTA has completed projects involving Civil, Structural, Geological, Hydrological and Reclamation Engineering; Land Use and Natural Resource Planning; Soil Science/Agronomy; Hydrology/Geology; Stream and Water Restoration; and Post Reclamation Land Uses. In addition, POTESTA is currently a contractor to the WVDEP Landfill Closure Assistance Program (LCAP) for surveying, geotechnical and other engineering services for preparing construction documents for reclamation of landfills, and for closure and remediation of underground storage tanks (UST's). We also have open ended statewide contracts with the West Virginia Division of Highways (WVDOH) for survey services and asbestos inspection services. In addition, we have the preeminent staff in West Virginia for addressing issues regarding water quality and regulatory issues since (a) two of our principals are former heads of the state environmental regulatory agency and one was also chief of the water quality regulatory agency, and, (b) we have several PhD's and others with degrees whose specialty is water quality. As a result, POTESTA will provide the required expertise to complete this AML project in a timely, economical, and efficient manner.

POTESTA has assembled a successful team of employees that have historically worked on WVDEP, AML projects. In fact, our staff has 100+ years experience working on WVDEP, AML projects and AML projects in other states. Our staff's direct knowledge of the AML program guidelines and personnel, our familiarity with the applicable state regulations, and our commitment to success will benefit WVDEP, AML.

POTESTA has 10+ employees with experience on WVDEP, AML projects. POTESTA employees have worked on and have experience in the following WVDEP, AML projects:

- ♦ Assessment of Contamination (e.g., PCB's, asbestos)
- ♦ Demolition of Structures
- ♦ Diversion of Stormwater
- ♦ Identifying Acid Mine Drainage
- ♦ Landslides
- ♦ Mine Fires
- ♦ Passive Acid Mine Drainage Treatment
- ♦ Reclamation of Refuse Piles
- ♦ Sealing Mine Portals
- ♦ Stream Relocations
- ♦ Subsidence Assessment and Remediation
- ♦ USCOE Permitting
- ♦ Water Line Design
- Water Supply Feasibility Studies and Design
- ♦ Inventory of Residential Water Supplies
- ♦ Wetland Assessments

POTESTA has completed or is working on several projects involving AML sites, or projects similar to a WVDEP, AML type project. These include water line design and construction administration and observation, design and permitting of refuse piles and slurry impoundments, evaluating mine drainage from pre-SMCRA sites, reclamation designs for WVDEP, LCAP, landslides, stream monitoring, development of grading plans, mine reclamation liability assessments, watershed assessments including evaluation of impact from AMD including AMD from pre-SMCRA sites, detention pond designs, wetland studies, mine site design and permitting and design of numerous storm water structures.

Appendix B contains the executed Request for Quotation form and Purchasing Affidavit form.

The following describes POTESTA's qualifications for the surveying, aerial mapping, subsurface exploration, and laboratory services necessary for this project:

POTESTA proposes to utilize our own survey crews on this project. POTESTA will perform all of the surveying required for this contract using in-house personnel. POTESTA has three licensed professional surveyors with over 40 years of combined surveying experience. Our surveyors are experienced in all aspects of surveying such as topographic mapping, boundary and property surveys, and construction surveys for layout of work, record drawings, and quantity measurements.

POTESTA's surveyors use state-of-the-art "Field to Finish" equipment such as total station instruments, data collectors, AutoCAD 2007, Autodesk Land Desktop 2007 and Autodesk Civil 3D 2008 design software, computer hardware for data management, and a Hewlett Packard Designjet 5500 color ink jet plotter.

POTESTA is equipped with modern surveying instruments allowing efficient data processing and accurate gathering of field information. Total station instruments equipped with data collectors are utilized for complete field-to-office automation allowing for high levels of productivity in the field. The latest versions of software are then used to process survey data and create drawings or required end products.

POTESTA utilizes state of the art computers and hardware, networked through Windows NT, for interfacing of drafting and surveying departments. Thus, drawing and surveying data files can be shared efficiently.

Surveys and mapping are completed to the standards as outlined by the National Map Standards as well as other applicable quality standards.

Additional information on POTESTA's corporate history and experience is included in the AML Consultant Confidential Qualification Questionnaire included in **Appendix C**.

1.2 Experience, Qualifications, and Performance Data of Primary Staff

Primary staff POTESTA commits to this contract and their roles are as follows:

Mr. Dana L. Burns, PE, Vice President at POTESTA, will serve as principal-in-charge for this project. Mr. Burns has served as project manager or principal-in-charge on three open end contracts for WVDEP, AML from 1986 through 1997 totaling over 60 projects. In addition, Mr. Burns has served as the principal-in-charge for four other WVDEP, AML projects since 2003. Mr. Burns' experience includes 28 years of civil and environmental engineering and related projects including water line extensions, sealing portals, regrading refuse, site assessments, mine fires, preliminary feasibility evaluations, detailed design, and preparation of construction drawings, specifications, and bid documents. Mr. Burns will ensure that the AML workload is properly supported.

Messrs. Mark Kiser, P.E., and Terence Moran, P.E., will serve as a project manager/design team leader. Mr. Kiser has served as a project manager/project engineer for over 30 AML projects in West Virginia between 1988 and 1997. Mr. Kiser has 24+ years experience in civil and environmental engineering projects including evaluation, design, preparation of plans and specifications, and construction administration. He has worked on over 60 AML projects as well as extensive experience with the coal industry. Mr. Kiser performs constructability reviews on our projects during and after design. Mr. Kiser is currently POTESTA's project manager for

POTESTA's WVDEP, LCAP contract. Mr. Moran has served as project manager/project engineer or assisted with over 60 AML projects in West Virginia and Virginia between 1989 and 1999. Mr. Moran has 17+ years experience in civil and environmental engineering projects, including evaluation, design, preparation of plans and specifications, and construction administration. Mr. Moran has co-authored multiple papers, including one on the abatement of AMD at the Omega Mine site and another on evaluating AMD of AML sites during preaquisition site assessments. Messrs. Kiser and Moran have worked on AML projects that addressed such technical issues as AMD, sealing portals, regrading refuse, diverting stormwater, landslides, subsidence and water supply. Messrs. Kiser and Moran are both familiar with requirements of AML projects and will ensure that WVDEP is satisfied with POTESTA's work by ensuring that proper QA/QC and timeliness are adhered to.

NOTE: Since POTESTA has 12 professional engineers (P.E.), a combined significant track record with AML projects, POTESTA believes it can handle a substantial AML workload. Hence, POTESTA can adequately staff the Prospect Valley Highwall #4 Project. POTESTA can assign an additional four design teams to other AML projects if asked to do so.

POTESTA has four other P.E.s with AML and related design experience in Messrs. Vince Ammirato, Bill Drinkard, Patrick Ward, and Ryan McGlothen, who will also serve as design team leaders. Their individual experiences and capabilities are discussed in further detail later in this section and in **Appendix D**.

In addition to the design team leaders, POTESTA has an additional project manager/project engineer in Mr. Chris Grose who has worked on numerous WVDEP, AML projects. Mr. Grose will serve as POTESTA's geotechnical scientist for work on this contract. Mr. Grose currently oversees aspects of geotechnical work at POTESTA and worked on WVDEP, AML projects from 1990 to 1997. Mr. Grose will evaluate slope stability issues with respect to regraded coal refuse.

Abbreviated personal history statements of primary staff and more detailed descriptions of staff experience are presented in the AML Consultant Confidential Qualification Questionnaire in **Appendix C**, and the AML and Related Project Experience Matrix in **Appendix D**.

1.3 Experience, Qualifications, and Performance Data of Other Staff

POTESTA has a staff of almost 100 technical and support personnel. Combined with our team of highly experienced subcontractors, POTESTA is exceptionally well suited to: (1) complete surveying and mapping; (2) perform geotechnical services including subsurface exploration and laboratory analysis; (3) design drainage diversion structures such as mine seals, reinforced concrete caps over vertical openings, channels and culverts, perform regrading plans for the refuse areas, and design dewatering plans, if necessary; (4) develop engineering drawings, contract specifications, permit applications and other contract documents; and (5) attend a pre-bid meeting and preconstruction conference as may be required for the Prospect Valley Highwall #4 Project. POTESTA can conduct all design engineering work required for this project with present personnel.

POTESTA's project managers will be supported by a team of engineers, scientists, surveyors, hydrologists, geologist/hydrogeologists, biologists, CADD operators, and other support personnel from POTESTA's staff. Included are geotechnical scientists and geotechnical engineers such as Mr. Chris Grose and Mr. Patrick Ward, P.E., who have both worked on numerous AML projects in the early to mid 1990's; project engineers such as Daniel Lipscomb, E.I.T., Ryan McGlothen, P.E., Robert Ammirato, E.I.T., Jarrett smith, P.E., and Kenneth Kinder, P.E.; Mr. Vince Ammirato, P.E., a civil engineer with an emphasis in structural engineering who has extensive experience in design of reinforced concrete and steel structures; Mr. Bill Drinkard, P.E., a mining engineer whom has worked on numerous projects involving earthwork, site drainage, AMD, mine land reclamation, calculations, plans and specifications and construction administration; Mr. Denny Kohler, an environmental scientist who was in charge of surface mine reclamation for a major coal company for 18 years and has prepared numerous reclamation plans including reclamation of a coal waste impoundment in Kanawha County; Mr. Victor Dawson, P.L.S., who has worked on developing mapping or performing construction layout on projects dating back into the late 1980's; and POTESTA's team of CADD Operators whom have also worked on AML projects.

Abbreviated personal history statements of key personnel are presented in the AML Consultant Confidential Qualification Questionnaire presented in **Appendix C**. Additional information is included in Section 1.4 "Management Plan and Location of Facilities."

Our corporate and staff's experience involves civil (including water supply systems), structural, geological, hydrological, environmental, mining, geotechnical, and reclamation engineering; land use and natural resource planning; soil science/agronomy; hydrology/geology; surface/underground coal mining; environmental and ecological principles in land reclamation, stream and water restoration, and post reclamation land uses; and contract administration. Our capabilities, qualifications and expertise in design of AML projects are further exemplified in **Appendix E - Service Briefs** and **Appendix F- Project Abstracts**.

POTESTA provides multi-disciplinary services and can perform all of the professional services required under this contract.

1.4 Management Plan and Location of Facilities

Management Plan

POTESTA's proposed project organization chart including key staff and subcontractors is shown by Figure 1 in **Appendix G**. Work will be performed at POTESTA's Charleston, West Virginia office or on-site as may be required. Our Charleston location is convenient with respect to WVDEP's Charleston office; the effort will be supported by our Morgantown office if needed.

POTESTA's professional, technical, and support staff have extensive experience on water supply and WVDEP, AML projects. We are well qualified to serve WVDEP on this project. We stand ready to commit the personnel and resources required to complete this project in a timely, technically sound,

and cost-efficient manner. POTESTA's large staff size will allow us to work on this project on an accelerated schedule if necessary.

As shown by Figure 1 in Appendix G, POTESTA's principal-in-charge will be responsible for contract management (administration) and shall coordinate and direct all aspects of the project. The principal-in-charge will review the proposed project, assign a project manager, assemble a project team and appoint key staff to develop a proposed scope of work. The principal-in-charge and project manager will visit the site with WVDEP, AML to review site conditions and the proposed services to be completed and guide the preparation of a detailed proposal and cost estimate. A written proposal including a detailed scope of work and an associated manhour and cost estimate will then be prepared and submitted to WVDEP, AML for review. The project manager will review the proposal with the WVDEP, AML including a task-by-task discussion of work items and the related costs. Upon WVDEP, AML's approval of the proposal, the project manager will arrange for the start of project activities. The principal-in-charge will provide the project manager the required staff necessary to complete the project activities, will review the project budget and schedule during performance of the project, and will provide a final QA/QC review of the documents prior to submittal to the WVDEP, AML. Mr. Dana Burns, P.E. will serve as the principal-in-charge on this project. Day-to-day project activities for this project will be performed under the direction of our project manager, Mr. Mark Kiser, P.E. Mr. Terence Moran, P.E. will serve as a "backup" project manager for quality assurance/quality control. The project manager will develop a detailed step-by-step project work plan so that the project activities are completed in a correct manner, on-budget, and on-time. They will also review work products at intermediate points and prior to project completion. They will conduct project status reports which may include weekly meetings, memos, or telephone calls with the WVDEP, AML project manager as required. The project manager will supervise the day to day work in progress, will coordinate with POTESTA's subcontractors to provide necessary services, and review work products at intermediate points and prior to submittal to the WVDEP, AML.

POTESTA will utilize the appropriate classification of staff to conduct activities required for the project. Our large, experienced staff allows us to respond quickly, provides flexibility, and will provide for the opportunity of high level input from in-house experts on complex multi-disciplinary projects. Our normal method of staffing projects is to assign a small project team with total responsibility for completion of the work to the client's satisfaction and budget. Where necessary, the team can draw on the expertise available within POTESTA's large staff. POTESTA offers a large staff with the efficiency and rates normally associated with a small firm.

WVDEP, AML has indicated that 60 days are required for submittal of deliverables for the Prospect Valley Highwall #4 Project. We stand ready to meet your time frame. We can provide up to four design teams to complete the required engineering services with an additional two design teams as "backup" to be utilized if needed. The assignment tasks are noted on the design team descriptions on Figure 1 in **Appendix G**. If needed, we can accelerate your schedule.

Project Budget Control

The project manager will be responsible for monitoring the project budget and keeping the principal-in-charge informed of its status. POTESTA's staff enters time into POTESTA's Timetrax computer system on a daily and/or weekly basis. POTESTA's project managers can access Timetrax at any time, thus allowing "real-time" control of project costs. In addition, field representatives routinely keep track of subcontractor costs on a daily basis. Thus we can, in effect, keep track of the total project costs on a weekly basis. Our subcontractors commonly invoice at monthly intervals and there is seldom a discrepancy between our field representative's pay items and our subcontractor's invoice.

Schedule Control

Direct responsibility for schedule control lies with the project manager. Initially, the project manager will review schedule requirements (understood to be 60 days for submittal of preliminary design documents) to see how they can be achieved given the anticipated scope of work. As the project progresses, the project manager will monitor progress and compare it with the established schedule on a weekly basis keeping the principal-in-charge aware of the schedule's status. In this manner, the principal-in-charge can make staff adjustments to allow the project manager to maintain the project schedule. If circumstances develop that make it impossible to maintain the project schedule, the project manager will contact the WVDEP project manager to develop a mutually acceptable adjustment to the schedule and/or work plan.

Location of Facilities

POTESTA will complete the work under this contract in our Charleston, West Virginia office. Our subcontractors are located in the Charleston area or other strategic regions and are quite familiar with the coalfields of West Virginia where the Prospect Valley Highwall #4 Project is located. Our close proximity to WVDEP's Charleston office will allow the project to be completed in a timely, economical manner as well as provide WVDEP, AML with easy access to us.

Quality Assurance/Quality Control

Submittals to the WVDEP will be reviewed and commented on by the project manager and the principal-in-charge prior to submittal to the WVDEP. Both the project managers and the principal-in-charge have worked on numerous WVDEP, AML projects, and thus understand the level of detail and expectations for WVDEP, AML projects. POTESTA utilizes standardized Quality Assurance/Quality Control (QA/QC) practices such as consistency checks, color coding of checked copies/calculations, and review of method of measurements versus quantity tallies to insure QA/QC expectations are met.

2.0 CLOSING

We look forward to continuing to serve WVDEP, AML on the Prospect Valley Highwall #4 Project and bring it to completion. Our commitment is to provide quality service, rapid response and project completion, and to exceed your expectations for services performed under this project. We believe the track record of our professionals demonstrates our ability and commitment.

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601 57th Street Charleston, WV 25304

30 days written notice to the certificate holder named to the left, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABRITY OF ANY KIND UPON THE COMPANY, ITE AGENTS OR REPRESENTATIVES.

AUTHORAED REPRESENTATIVE

© ACORD CURPORATION 1986

CERTIFICATE: 001/001/ 00154

IMPORTANT

If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

DISCLAIMER

The Certificate of Insurance on the reverse side of this form does not constitute a contract between the issuing insurer(s), authorized representative or producer, and the certificate holder, nor does it affirmatively or negatively amend, extend or alter the coverage afforded by the policies listed thereon.



CERTIFICATE HOLDER:

POTESTA & ASSOCIATES INC 7012 MACCORKLE AVE SE CHARLESTON, WEST VIRGINIA, 25304-0000

PRODUCER:

BrickStreet Mutual Insurance Company 400 Quarrier Street Charleston, WV 25301

INSURED:

POTESTA & ASSOCIATES INC 7012 MACCORKLE AVE SE CHARLESTON, WEST VIRGINIA, 25304-0000

CERTIFICATE OF INSURANCE

The policy of insurance listed below has been issued to the insured named above for the policy period and coverage indicated. This certificate is issued as a matter of information only and confers no rights upon the certificate holder. This certificate does not amend, extend or alter the coverage afforded by the policy below. Coverage is contingent on the insured's compliance with policy conditions and premium payment.

If the policy is canceled before the expiration date, BrickStreet Mutual Insurance Company will endeavor to mail a written notice to the certificate holder within 30 days of cancelation. Failure to mail the notice shall impose no obligation or liability of any kind upon BrickStreet Mutual Insurance Company.

POLICY NUMBER: WC10013153-05

DATE CERTIFICATE ISSUED: 3-31-2008

POLICY EFFECTIVE DATE: 4-1-2008

EXPIRATION DATE: 4-1-2009

WORKERS COMPENSATION AND EMPLOYERS LIABILITY

LIMITS / COVERAGE

[X] WORKERS COMPENSATION - STATUTORY LIMITS

[X] EMPLOYERS LIABILITY LIMITS:

BODILY INJURY BY ACCIDENT:

\$ 100,000.00

EACH ACCIDENT

BODILY INJURY BY DISEASE:

\$ 500,000.00

POLICY LIMIT

BODILY INJURY BY DISEASE:

\$ 100.000.00

EACH EMPLOYEE

- [] WV BROAD FORM EMPLOYERS LIABILITY ENDORSEMENT -COVERAGE FOR WV CODE 23-4-2(d)(2)(ii)
- [] FEDERAL COAL MINE HEALTH AND SAFETY ACT COVERAGE ENDORSEMENT -COVERAGE FOR WV CODE 23-4b-1 - FEDERAL BLACK LUNG COVERAGE

SPECIAL PROVISIONS IF ANY:



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

DEP14433

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF CHUCK BOWMAN
304-558-2157

ENVIRONMENTAL PROTECTION
DEPARTMENT OF
OFFICE OF AML&R
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

RFQ COPY
TYPE NAME/ADDRESS HERE
Potesta & Associates, Inc.

7012 MacCorkle Avenue, SE Charleston, WV 25304

DATE PRIN	and the second second second second	TE:	MS OF SAL	E	SHIP	IIA.		O.B		FREIGH	TTERMS
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TITLE Vice Pr	esiden	.t F	N 311	50906	6		AD	DRESS CHA	NGES	TO BE NOTE) ABOVE

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name:	Potesta & Associate	s, Inc Dana L. Burns		
Authorized Signa	ature: Lina	Laurs	Date: October 23, 2008	

W)	WEST VIRGINIA AML CONSULTANT	INIA DEPARTMENT TANT CONFIDENTIAL	IT ENVIRONMENTAL TIAL QUALIFICATION	AL PROTECTION N QUESTIONNAIRE	N NIRE Attachment "B"
PROJECT NAME Prospect Valley Highwall #4	#	DATE (DAY, MONTH, 22, O	H, YEAR) October, 2008	FEIN	311509066
1. FIRM NAME		2. HOME OFFICE BUSINESS	ADDRE	3. FORMER	FIRM NAME
Potesta & Associates, Inc.		7012 MacCorkle Charleston, Wes	rle Avenue, SE West Virginia	25304 N/A	
4. HOME OFFICE TELEPHONE	5. ESTABLISHED		. TYPE OWNERSHI		6a. WV REGISTERED DBE
(304) 342-1400	7661		Individual Cor Partnership Joi	Corporation Joint-Venture	(Disadvantaged Business Enterprise)
7. PRIMARY AML DESIGN OFFICE:	ADDRESS/	TELEPHONE/ PERSON	IN CHARGE/ NO.	AML DESIGN PERSONNEL	EACH OFFICE
7012 MacCorkle Avenue, SE,	Chai	WV 25304 /	00 / Dana	L. Burns / 82	
8. NAMES OF PRINCIPAL OFFICERS OF Ronald R. Potesta, President Dana L. Burns, Vice President Laidley Eli McCoy, Vice Presic President Presic Presic Presic Presic President Pres	ERS OR MEMBERS OF Fident and Treasurer President and Secre	NS OF FIRM sagurer i Secretary	8a. NAME, TITLE, & N/A	TELEPHONE NUMBER	ER - OTHER PRINCIPALS
17 ADMINISTRATIVE ARCHITECTS 10 BIOLOGIST CADD OPERATORS 12 CHEMICAL ENGINEERS 12 CIVIL ENGINEERS 6 CONSTRUCTION INSPECTORS DESIGNERS 10 DRAFTSMEN	2 ECOLOGISTS 1 ELECTRICAL E 1 ENVIRONMENTA 2 ESTIMATORS 3 GEOLOGISTS 1 HYDROLOGISTS 1 TOXICOLOGISTS	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTAL ENGINEER ESTIMATORS GEOLOGISTS HISTORIANS HYDROLOGISTS TOXICOLOGIST	1 LANDSCAPE ARCHITECTS 2 MECHANICAL ENGINEERS 1 MINING ENGINEERS PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL 1 SANITARY ENGINEERS 4 SOILS ENGINEERS 2 SPECIFICATION WRITERS 7 ENVIRONMENTAL SCIENTIST	ARCHITECTS L ENGINEERS NGINEERS IMETRISTS URBAN/REGIONAL ENGINEERS HINEERS TION WRITERS ENTAL SCIENTIST	1 STRUCTURAL ENGINEER 7 SURVEYORS 1 TRANSPORTATION ENGINEERS 1 INFORMATION TECHNOLOGIST 2 CHEMIST CHEMIST OTHER
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: *RPEs other than Civil and Mining must provide supporting documentation supervise and perform this type of work.	STERED PROFESSIC and Mining must his type of wor	'ESSIONAL ENGINEE must provide sup ' work.	NEERS IN PRIMARY OFFICE: supporting documentation	3: 10 96 on that qualifies	96 TOTAL PERSONNEL
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	RKED TOGETH	BEFORE?	U YES U NO	N/A	

11. OUTS' KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO Quest_inaire".	TUSED.	Attach "AML Consultant Confidential Quali' ation
NAME AND ADDRESS: Digital Graphic Memines	SPECIALTY:	WORKED WITH BEFORE
Digital Orapping 172 Imboden Drive, Suite 13 Winchester, Virginia 22603	Aerial Photography and Mapping	X Yes
NAME AND ADDRESS:	SPECIALTY:	NO WORKED WITH BEFORE
Sturm Environmental Services, Inc. Brushy Fork Road Deithorner Word Viscinic 26220	Environmental and Coal Related Laboratory	X Yes
Diagraphi, west viguia 20330		No
NAME AND ADDRESS: Test Roring Services	SPECIALTY:	WORKED WITH BEFORE
140 Mong Road Scenery Hill Demonstrania 15260	Soil and Rock Boring	X Yes
South James and Allen and Allen		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
PO Box 416, HUB Industrial Park Nitro West Viroinia 25143-0416	Geotechnical Laboratory	X Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		Yes
		No

for Description and Number of Projects: POTESTA's staff is experienced in all aspects of soil analysis, project managers, Messrs. Mark Kiser, P.E. and Terence Moran, P.E. have each worked on over 60 AML Description and Number of Projects: POTESTA's staff routinely develop contour mapping for use with principal engineers have extensive experience with preparing design plans for refuse piles. Many Description and Number of Projects: POTESTA's staff is experienced in hydrology and hydraulics as We subcontract aerial mapping development, but complete the ground control necessary for ng mapping. On smaller projects, we perform the topographic survey work and subsequently develop the contour mapping. POTESTA has completed 200+ mapping development projects in the last it relates to AML projects in West Virginia. POTESTA's staff has worked on 60+ AML projects that excavated materials to generate acidity, and analysis of coal refuse to determine the potential of the previous AML projects won reclamation awards including: Bear Run Refuse, Kimball Refuse POTESTA's principal engineers have Piles; Owings Mine Complex; Pine Creek (Omar) Refuse; Turner-Douglas Complex; Grass Run Refuse. POTESTA's staff has worked on 30+ AML POTESTA has developed well over 100 storm projects dating back to 1986, including landslide investigation and abatement, mine subsidence Description and Number of Projects: POTESTA's principal-in-charge, Dana L. Burns, P.E. and two stabilization projects, acid mine drainage treatment, refuse piles, mine drainage, mine portal revegetation requirements, acid-base accounting of rock samples to evaluate the potential water management plans for mines, industrial facilities and new site development projects POTESTA has 10+ staff with experience on AML projects. POTESTA is developed and implemented plans for nutrient and lime requirements testing to determine Reclamation/Wine Reclamation Engineering? projects involving soil science, including slope stability and revegetation. These projects were completed by Dana Burns, Mark Kiser, and Terry Moran. Does your firm produce its own Aerial Photography and Develop Contour Mapping? experienced in soil analysis as it relates to this project. including geotechnical and environmental soil analysis. involved sizing channels, culverts, and waterlines. Is your firm experienced in hydrology and hydraulics? Is your firm experienced in Abandoned Mine Land Is your firm experienced in Soil Analysis? seal, and water supply projects. throughout West Virginia. developing mapping. reprocessing. design. YES YES YES 000 Ċ.

sign? (Include any experience your firm has in evaluation of aquifer degradation as a result c ...ining.) Is your firm experienced in domestic waterline ш

designs for municipalities, WVDEP AML, and private utilities. POTESTA's staff includes one project degradation, including aquifer degradation by AML sites. Our staff has worked on 80+ evaluations of aquifer degradation. POTESTA has performed over 30 water line design projects totaling several 20+ mile Cow Creek-Sarah Ann Extension and 30+ mile/2,800 GPM Water Treatment Plant Mill Creek POTESTA's staff has worked on waterline designs and water treatment plant Description and Number of Projects: POTESTA's staff is exceptionally experienced at domestic Regional Water Supply project. We are also exceptionally well qualified to evaluate aquifer manager, Terence C. Moran, PE, who has managed design of numerous AML waterlines, including hundred miles of installed water line. waterline design. YES

S

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

POTESTA's staff has worked on 30+ projects involving AMD to prevent/abate AMD generation. Additionally, we worked extensively with Elk Run Coal Company to devise a plan to limit AMD generation and to treat the remaining AMD. WVDOH, among others with acid-base accounting evaluations and the subsequent development of plans In both cases, many of the projects Description and Number of Projects: POTESTA has completed numerous projects addressing acid mine We have worked extensively with Anker Energy, Dominion Generation, and the evaluation and 10+ projects involving AMD abatement design. drainage evaluation and abatement design. involved AML sites. YES

Partie Law. First, Middle Int.) Partie Explanation of Responsibilities President Proce President Fighs of Parties F				
Burns, Dana L. Vice President If Explanation of Responsibilities Burns will serve as principal-in-charge for this project with Burns has served as the project manager or principal-in-charge for this project with Burns has served as the project manager or principal-in-charge ct will be identified. He will coordinate contract issues ATTION (Degree, Year, Specialization) MS, 1979, Civil Engineering with Environmental Engineering MS, 1979, Civil Engineering with Environmental Engineering MS, 1978, Civil Engineering with Environmental Engineering MS, 1978, Civil Engineering Mest Virginia Consulting Engineers Mest Virginia Consulting Engineers Mest Virginia Association of Consulting Engineers Mest Virginia Association of Consulting Engineers Mest Virginia Association of Consulting Engineers Mest Virginia Consulting Engineering Explanation of Responsibilities ATTILE (Last, First, Middle Int.) Explanation of Responsibilities ATTILE Engineer, with significant experience in coal refuse st nage channelization, he will serve as a design team leader CAA/QC for the various draft submissions and final construction (Degree, Year, Specialization) ES, 1984, Civil Engineering ESSHIP IN PROFESSIONAL ORGANIZATIONS	& TITLE (Last, First, Middle Int.)		OF.	
Explanation of Responsibilities Burns will serve as principal-in-charge for this project with burns has served as the project manager or principal-in-charge through 1997, totaling over 60 projects. He will ensure the et will be identified. He will coordinate contract issues and 1997, totaling over 60 projects. He will ensure the et will be identified. He will coordinate contract issues BX. 1978, Civil Engineering with Environmental Engineering BS, 1978, Civil Engineering with Environmental Engineering Mest Virginia Coal Association West Virginia Association of Consulting Engineers American Society of Civil Engineers West Virginia Association of Consulting Engineers West Virginia Association of Consulting Engineers American Consulting Engineering Council - Trans Committee PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESIGNET OF A TITLE (Last, First, Middle Int.) Explanation of Responsibilities Thief Engineer, with significant experience in coal refuse st chief Engineer, with significant experience in coal refuse st mage channelization, he will serve as a design team leader. QA/QC for the various draft submissions and final constructing Engineering EX. 1984, Civil Engineering EX. 1984, Civil Engineering ERSHIP IN PROFESSIONAL ORGANIZATIONS	<u> </u>	SARS OF AML DESIGN EXPERIENCE: 19	YEARS OF AML RELATED DESIGN EXPERIENCE: 28	b)
Burns will serve as principal-in-charge for this project with Burns has served as the project manager or principal-in-char eth will be identified. He will coordinate contract issues ect will be identified. He will coordinate contract issues MS. 1979, Civil Engineering with Environmental Engineering SERSHIP IN PROFESSIONAL ORGANIZATIONS West Virginia Coal Association of Consulting Engineers American Society of Civil Engineers American Society of Civil Engineers American Consulting Engineering Council - Trans Committee PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESE data but keep to essentials) E TITLE (Last, First, Middle Int.) AMERICAN STATEMENT OF PRINCIPALS AND ASSOCIATES RESE Chief Engineer An and Description of Responsibilities Hief Engineer, with significant experience in coal refuse st chapter of the various draft submissions and final constructing CAA/QC for the various draft submissions and final constructing BS, 1984, Civil Engineering BS, 1984, Civil Engineering BS, 1984, Civil Engineering	Explanation of	ALAMANA TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO	and the state of t	The state of the s
nvironmental Engineering lting Engineers uncil - Trans Committee PALS AND ASSOCIATES RESE Is of AML DESIGN EXPERIENCE Is a design team leader. ons and final constructi	Burns will serve as principal-in- Burns has served as the project of through 1997, totaling over 60 g ect will be identified. He will	for or i.	his significant experience ve on three open end contracts personnel required to efficith the State of West Virgini	with AML type projects. s for WVDEP, AML from iently complete this ia.
Stating Engineers Uncil - Trans Committee PALS AND ASSOCIATES RESP SOF AML DESIGN EXPERIENCE 16 16 16 16 16 16 16 16 16 17 16 16 17 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	(Degre 1979, 1978,	n) Environmental Engineering	Emphasis	
s uncil - Trans Committee PALS AND ASSOCIATES RESE S OF AML DESIGN EXPERIENCE 16 rience in coal refuse st s a design team leader. ons and final constructi ons and final constructi	MEMBERSHIP IN PROFESSIONAL ORGANIZATION	NS	(Type, Year,	cate)
PALS AND ASSOCIATES RESPENSION OF AML DESIGN EXPERIENCE 16 rience in coal refuse st s a design team leader. ons and final constructi	American Society of Civil Engine West Virginia Association of Con American Consulting Engineering (ting ncil	1985,	
is OF AML DESIGN EXPERIENCE 16 rience in coal refuse st s a design team leader. ons and final constructi	. PERSONAL HISTORY data but keep to	CIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
is OF AML DESIGN EXPERIENCE 16 rience in coal refuse st s a design team leader. ons and final constructi	& TITLE		YEARS OF EXPERIENCE	
rience in coal refuse st s a design team leader. ons and final constructi	L	MARS OF AML DESIGN EXPERIENCE: 16	YEARS OF AML RELATED DESIGN EXPERIENCE: 23	
rience in coal refuse st s a design team leader. ons and final constructi	Explanation of		- I LOCALIANON MINISTERIOR CONTRACTOR CONTRA	***************************************
REGISTRATION (Type, Year, State) PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation Specialist, 1998,	As Chief Engineer, with significant exp drainage channelization, he will serve and QA/QC for the various draft submiss	in coal refuse st sign team leader. 1 final constructi	oilization design and mine po Mr. Kiser will also provide o n documents.	ortal closures and constructability reviews
REGISTRATION (Type, Year, State) PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation Specialist, 1998,	(Degree, Year,	(u		THE THE PARTY WAS ARREST TO THE TAXABLE PARTY TO TH
REGISTRATION (Type, Year, State) PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation Specialist, 1998,	1984, Civil			
	MEMBERSHIP IN PROFESSIONAL ORGANIZATION	NS	REGISTRATION (Type, Year, St PE, 1990, WV PE, 1998, IN PE, 1998, SC Licensed Remediation S	1998,

13. PER 'AL HISTORY STATEMENT OF PRI data_,ut keep to essentials)	STATEMENT OF PRINCIPALS AND ASSOCIATE? **SPONSIBLE FOR AML PROJECT DESIGN (Furnish essentials)	KSIBLE FOR AML PROJECT DESIGN	(Furnish comple
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Moran, Terence C. Senior Engineer I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 18
Brief Explanation of Responsibilities		призонализация политичности пол	, and a second s
Mr. Moran will serve as project manager subconsultants. Mr. Moran has served as between 1989 and 1999. He will set the the principal designers of the reclamati	coordinatir s a project schedule ar on design s	design c 60 AN asis.	n team members, and Wi projects in West Virginia He will also serve as one of
EDUCATION (Degree, Year, Specialization)	ion)	The state of the s	
MS, 1989, Civil Engineering BS, 1987, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	NOI	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers	neers	PE, 1996, WV PE, 1998, VA	
13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	OF PRINCIPALS AND ASSOCIATES RESPON	ND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Taylor, Patrick A. Senior Engineer II	17	EXPERIENCE: 17	WATERLINE DESIGN EXPERIENCE: 12
Brief Explanation of Responsibilities	State of the state	minoration — — — — — — — — — — — — — — — — — — —	
Mr. Taylor will serve as a project engineer, technical specifications, bid forms, and cos consisting of emergency slide remediation, r slurry pond reclamation. Mr. Taylor also se surface mining permitting, design and reclam	including t estimates efuse fill rved as a h	design, and ect engineer ation, abandc ivate consult	and preparation of drawings, ser experience in AML projects bandoned portal closures, and sulting firm responsible for
EDUCATION (Degree, Year, Specialization)	ion)	Professional Professional Association in the Commission of the Com	
MS, 2006, Engineering Management BS, 1988, Civil Engineering	nt		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SNOT	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineering	neering	PE, 1994, WV	

13. PERS. AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATESESPONSIBLE data but keep to essentials)	BLE FOR AML PROJECT DESIGN	(Furnish comple.
	YEARS OF EXPERIENCE	
Lipscomb, Daniel H. Engineer II	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1+
Brief Explanation of Responsibilities		
Mr. Lipscomb has extensive experience in design and permitting of water supply to gain easements. Mr. Lipscomb also has significant experience in subsurface		systems and interaction with the public explorations and soil evaluations.
EDUCATION (Degree, Year, Specialization)		THE THE PROPERTY OF THE PROPER
BS, 2002, Civil Engineering Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, Sta	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE data but keep to essentials)	BLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Potesta, Ronald R. President	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	The state of the s	Proportion of the Control of the Con
As President, Mr. Potesta directs the full resources of the firm to WVDEP.	the firm to meet the complete requirements of this project for	ents of this project for
EDUCATION (Degree, Year, Specialization)		
MS, 1975, Economics with a Concentration in Mineral Economics, BS, 1971, Business Administration	Econometrics, and Micro	Economics
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Commissioner, Ohio River Valley Water Sanitation Commission; Board of Directors, WV Chapter of the Nature Conservancy; National Institute for Chemical Studies; WV Environmental Institute; WV Manufacturers Association	REGISTRATION (Type, Year, Sta	State)

13. PERS. AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES ASSPONS data but keep to essentials)	AESPONSIBLE FOR AML PROJECT DESIGN	(Furnish comple.
	YEARS OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		The second secon
Dr. McCoy will serve as a back-up principal-in-charge. In addition, natural science division of the company. He will coordinate require completion of this reclamation design.	Dr. McCoy manages the d environmental support	entire environmental and services for the
EDUCATION (Degree, Year, Specialization) PhD, 1981, Aquatic Ecology MS, 1974, Biological Science BS, 1972, Zoology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE data but keep to essentials)	IBLE FOR AML PROJECT DESIGN	(Furnish complete
	YEARS OF EXPERIENCE	
Christopher A.	YEARS OF AML RELATED DESIGN EXPERIENCE:	MESTIC ESIGN
Senior Engineering Associate	æ ⊢1	EXPERIENCE: 10
Brief Explanation of Responsibilities	A SALA A	
Mr. Grose will coordinate the drilling and geotechnical analysis fo of borrow sites for soil cover, and investigation and design of sol mines and recommendations for mine seals.	analysis for the refuse slope stability design, identificssign of solutions for subsurface hydrogeology within the	y design, identification geology within the deep
:ION (Degree, Year, Specializa		
MS, 1990, Geological Engineering BS, 1988, Civil Engineering		
P IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St.	State)
American Society of Civil Engineering Association of Engineering Geology Society of American Military Engineers	Licensed Remediation S	Specialist, 1998, WV

		YEARS OF EXPERIENCE	
Ammirato. Vincent J.	YEARS OF AML DESIGN EXPERIENCE:	AMIL.	YEARS OF DOMESTIC WATERLINE DESIGN
		10	EXPERIENCE: 6
Brief Explanation of Responsibilities	89.		and the second s
Mr. Ammirato will provide structural Columbia Gas in plant design and pipe this project may have.	will provide structural engineering that may be required in plant design and pipeline distribution will be well sumay have.	ed for this project. His suited for the possible s	extensive background with tructural requirements
EDUCATION (Degree, Year, Specialization)	(tion)		de dissables en entre de la companya
BS, 1970, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, St PE, 1980, WV PE, 1992, PA PE, 1992, OH PE, 1993, VA	State)
13. PERSONAL HISTORY STATEMENT OF PI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Ward, Patrick E. Senior Engineer I	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 10	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 2
Brief Explanation of Responsibilities	2 0.		**************************************
Mr. Ward will serve as a project eng project engineer on refuse piles, m	engineer and has extensive experience mine drainage, and subsidence project	on WVDEP, AML proses in the early to	ects, having served as a mid-1990's.
EDUCATION (Degree, Year, Specialization)	ttion)	The second secon	WWW. International Application (Control of Control of C
MS, 1992, Civil Engineering ((BS, 1990, Civil Engineering	(Geotechnical)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TIONS	REGISTRATION (Type, Year, St	State)
		PE, 1997, WV	

v

13. PERS. AL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)		AND ASSOCIATES SPONSIBLE FOR AML PROJECT DESIGN (Furnish comple-	(Furnish comple.
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
<u> </u>	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 7
Brief Explanation of Responsibilities		The second secon	
Mr. McGlothen will serve as a project and preparation of the drawings and tearthwork design, and monitoring of d	serve as a project engineer on this project. Ithe drawings and technical specifications. He monitoring of drilling, as well as hydrolog	project. Mr. McGlothen will assist with attions. He has extensive experience with as hydrologic and hydraulic design.	h design calculations h slope stability,
EDUCATION (Degree, Year, Specialization)	on)	T TO THE PROPERTY AND A STATE OF THE PROPERTY AND A STATE	energy to the second se
BS, 1996, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ONS	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers	eers	PE, 2002, WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 33	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	PORTION OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERT		POTROPORTURA INTERNAL
Mr. Kohler will serve as a project scientist extensive experience with the coal mining, har responsible for reclamation of surface operat	for issues regarding aving worked for the cions for over 15 yes	freclamation, including revegetation. Mr. coal industry for numerous years and being irs.	etation. Mr. Kohler has ars and being directly
EDUCATION (Degree, Year, Specialization)	on)		
BS, 1977, Environmental Science	Science and Resource Management		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ONS	REGISTRATION (Type, Year, St	State)

13. PERSAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATESESPO. data but keep to essentials)	GSPONSIBLE FOR AML PROJECT DESIGN	(Furnish comple.
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Sedosky, Timothy B. Staff Scientist I	YEARS OF AML RELATED DESIGN EXPERIENCE: 12	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities	THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	
Mr. Sedosky will review the site for possible wetlands and delineate, as required, wetland areas to be impacted by potential reclamation activities. He will prepare required permits to the WVDNR and US COE for wetland disturbance and mitigation.	ate, as required, wetland are ts to the WVDNR and US COE fo	areas to be impacted by for wetland disturbance
EDUCATION (Degree, Year, Specialization)	Antibodies and the second seco	
BS, 1995, Wildlife and Fisheries Resource		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPO. data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
TLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Litwinowicz, Dennis L. Staff Scientist I	YEARS OF AML RELATED DESIGN EXPERIENCE: 28	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities		
Mr. Litwinowicz will serve as a project geologist, including observation of assistance on evaluation of other geologic activities.	rvation of subsurface exploration activities	tion activities and
EDUCATION (Degree, Year, Specialization)	The state of the s	
BS, 1980, Geology and Mineralogy		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St.	State)
American Association of Petroleum Geologists	Certified Petroleum Ge	Geologist, 1984

13. PERS_AL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES GSPONSIBLE FOR AML PROJECT DESIGN (Furnish comple-	NSIBLE FOR AML PROJECT DESIGN	(Furnish comple.
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Dawson, Victor M. Survey Supervisor	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 25	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 10
Brief Explanation of Responsibilities	3.5		
Mr. Dawson will coordinate required su topographic surveys, boundary surveys significant existing drainage courses	surveying for aerial mapping's and/or property and deed ress not clearly defined in the	ng control if needed, establish research, survey of boring loca ne aerial mapping.	establish construction benchmarks, boring locations and profiling
EDUCATION (Degree, Year, Specialization)	cion)		
AS, 1983, Surveying			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St	State)
American Congress Surveying and Mapping	and Mapping	ZN 88	
North Carolina Society of Surv	Surveyors	0000	
HISTORY STATEMENT OF the to essentials)	ALS AND ASSOCIATES	AML PR	(Furnish complete
(Last, Fir		YEARS OF EXPERIENCE	
Osborne, Ralph E. CADD Designer	YEARS OF AML DESIGN EXPERIENCE:	AML JE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 15
Brief Explanation of Responsibilities	W. W. W. W. W. W. W. W. W. W. W. W. W. W		Commonwelless Association (Commonwelless Association Commonwelless Ass
Mr. Osborne will provide the CADD support reduce survey data at booster station and design.	in preparation of c water storage tank	construction drawings for the project. : sites to provide sufficient mapping t	ect. He will also ng to complete the
EDUCATION (Degree, Year, Specialization)	:ion)		
AS, 1983, Mining Technology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, St	State)

13. PERSAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)		AND ASSOCIATES ESPONSIBLE FOR AML PROJECT DESIGN	(Furnish comple.
Fir		YEARS OF EXPERIENCE	
YEARS Sankoff, Michael B. CADD Designer/Supervisor	OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 20	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 9
Brief Explanation of Responsibilities	To the property control and the control and th	The second secon	
Mr. Sankoff will provide the CADD support survey data to provide sufficient mapping	in preparation of to complete the de	construction drawings for the project.	ect. He will reduce
EDUCATION (Degree, Year, Specialization)		THE INTERNAL PROPERTY OF THE P	
BS, 1987, Industrial Management AS, 1986, Drafting and Design Engine AS, 1986, Mechanical Engineering Tec	nt Engineering Technology ng Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, Sta	State)
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
YEARS Ammirato, Robert J. Engineer	OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 4
Brief Explanation of Responsibilities	The state of the s		
Mr. Ammirato will serve as a project engineer preparation, design, technical specifications, in water supply and waste water system design,	for the project, bid forms, cost permitting, and	including hydraulic calculations, lestimates, and field work. He has regulations.	s, layout, drawing nas extensive experience
EDUCATION (Degree, Year, Specialization)	**************************************	THE THE PROPERTY OF THE PROPER	
BS, 1999, Mechanical Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, Sta	State)
		EIT, 1999, VA	

data but keep to essentials)			#
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Kinder, Kenneth K. Engineer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 4	YEARS OF DOMESTIC WATERLINE DESIGN BXPERIENCE: 3
Brief Explanation of Responsibilities	Δ0		
Mr. Kinder has extensive experience in hydrologic coal ash disposal facilities and preparation of co	and hydraulic st estimates.	design as well as subsurface	explorations, design of
EDUCATION (Degree, Year, Specialization)	cion)	AND THE PROPERTY OF THE PROPER	· · · · · · · · · · · · · · · · · · ·
BS, 2003, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIONS	REGISTRATION (Type, Year, S	State)
		PE, 2008, WV	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
1	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Smith, Jarrett M.	•	EAFEKLENCE:	WATERLINE DESIGN
Engineer II	1	t	EAFBKLENCE:
Brief Explanation of Responsibilities	30		Antisti de la companya de la companya de la companya de la companya de la companya de la companya de la companya
Mr. Smith has been involved extensively with preparation of NPDES stormwater construction grading plans and quantity/cost estimates.	development permits. He	ogic and hydraulic significant expert	calculations including ise in the development of site
EDUCATION (Degree, Year, Specialization)	ion)		
BS, 2002, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	CIONS	REGISTRATION (Type, Year, S	State)
National Society of Profession	Professional Engineers	PE, 2008, WV	

13. PERS...AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES ... SPONSIBLE FOR AML PROJECT DESIGN (Furnish comple...

13. PERS. AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES ASPONDER data but keep to essentials)	ASPONSIBLE FOR AML PROJECT DESIGN (Furnish comple-	(Furnish comple.
	YEARS OF EXPERIENCE	
Drinkard, William F. III	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 7
senior Englineer i)	
Brief Explanation of Responsibilities		
	industry	н
Areas, wine lacility construction utilities, access roads, drainage Mr. Drinkard will prepare NPDES permit applications for construction drainage calculations	roads, drainage controis, and portal closings. for construction activities and other required	ngs. in addition, ired storm and mine
מוניתת כמונית מונית במונית מונית מונ		
EDUCATION (Degree, Year, Specialization)		
MS, In Progress, Environmental Engineering		
MBA, 1981, Business Administration BS, 1980, Mining Engineering		
1 (1)	ION (Type, Year,	State)
	PE, 1981, WV PS, 1992, WV	
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONDED data but keep to essentials)	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE	
Junker, David N.	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Senior Scientist I	18	EXPERIENCE:
Brief Explanation of Responsibilities		
Mr. Junker will provide as needed geological/hydrogeological serv	services for this project.	
EDUCATION (Degree, Year, Specialization)		
MS, 1990, Hydrogeology and Geology BS, 1973, Geology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, St	State)
National Groundwater Association	Registered Professional Licensed Remediation Spe	al Geologist, 1993, KY Specialist, 1998, WV

14. PROV. 3 A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN I PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AM. DESIGN SERVICES
Microsoft Office XP (Excel, Access, Word, PowerPoint)
WordPerfect 11
Adobe PageMaker 7 (Publication Software)
MicroStation (Allows users to create 3D models of permanent assets - the models and all of their components are electronic simulations of real-world objects); used for CADD drawing preparation.
Autodesk Land Desktop 2007 (3D modeling software that provides topo analysis, real-world coordinate systems, volume totals, roadway geometry.)
Haestead Methods (Numerous software packages used for designing storm water structures [e.g., channels, culverts, ponds, etc.] and water distribution systems.)
MapTech, Terrain Navigator (Combines regional collections of topo maps with powerful PC navigation software for 2D/3D viewing, customizing, printing and GPS use.)
AutoCAD, 2007 and 2008 Used for preparing CADD drawings.
Softdesk 8.0 Civil/Survey Design Software

15. CURA I ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATEL AGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Lick Creek Waterline Extension - Phase I, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$1,200,000	\$08
Town of Ceredo Water Distribution System Upgrade - Contract No. 1, Ceredo, WV	Town of Ceredo PO Box 691 Ceredo, WV 25507	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$830,500	50%
Town of Ceredo Water Distribution System Upgrade - Contract No. 2, Ceredo, WV	Town of Ceredo PO Box 691 Ceredo, WV 25507	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$884,872	50%
Wash Branch Waterline Extension, Boone County, WV	Massey Coal Services 315 70 th Street, SE Charleston, WV 25304	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	\$550,000	20%
Hatfield-McCoy/Water Ways Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	Design and permitting associated with extension of waterline including preparation of drawings, specifications, and contract documents and administration.	.000,006\$	20%
Spruce Laurel Stream Monitoring, Boone County, WV	WVDEP - AML 601 57 th Street, SE Charleston, WV 25304	Post-grouting stream monitoring.	\$3,000,000 (Est.)	15%

15. CURR " ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED TGINEER OF RECORD			
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- ACTIVITIES		 (1)	
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- ACTIVITIES		WHICH	
15. CURF RACTIVITIES		Ö	
15. CURF		ACTIVITES	
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PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
(1)	Solutia, Inc. 1 Monsanto Road Nitro, WV 25143	Preparation of closure designs, construction drawings and specifications, environmental sampling, and regulatory liaison.	\$4,000,000	70%
Fleming Landfill Sewer Line, 2 miles of Sewer Line, Kanawha County, WV	WVDEP Office of Waste Management 1356 Hansford Street Charleston, WV 25301	Mapping development, design of sewer system, and preparation of drawings, specifications, and cost estimate.	\$1,100,000	% ଗ ଗ
Pocahontas County Landfill Expansion, Closure, and Operations Consulting Dunmore, WV			\$400,000	85%
The Villages at Coolfont, Morgan County, WV	Berkeley Springs Develop, LLC 99 N. Washington Ave. Berkeley Springs, WV	Engineering design and permitting for 1300 home community including water treatment plant and distribution system, wastewater treatment plant and collection system, roads, stormwater management system, and property surveys.	\$50,000,000 Excluding Home Construction Costs	80% (Design)
Fort Martin Power Station Coal Combustion By-Product Landfill Expansion, Monongalia County, WV	Allegheny Energy Supply 800 Cabin Hill Drive Greensburg, PA 15601	Wetland delineation, engineering design, and permitting for a 100-acre landfill including synthetic liner system, leachate pumpback system, stormwater management system, and access roadways.	\$25,000,000	90% (Design)

15. CUR T ACTIVITIES	CURF T ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATER	E DESIGNATET NGINEER OF RECORD	RECORD	
PROJECT NAME, TYPE AND	NAME AND ADDRESS OF	NATURE OF YOUR FIRM'S	ESTIMATED CONSTRUCTION	PERCENT COMPLETE
LOCATION	OWNER	RESPONSIBILITY	COST	
Site Assessment and	WVDEP	Site assessment to	000'000'5\$	%66
Closure/Capping Plan	Office of Waste	determine compliance		(Construction)
	Management	with 33CSR1,		
Landfill, Ripley, WV	<u></u>	engineering design and		
	Charleston, WV 25301	contract bid documents		
		for closure/capping of		
		20-acre landfill.		
Big Sandy Peaker Plant	Constellation Power	Environmental	Unknown	100%
Wayne County, WV	Company	permitting, site		
	250 West Pratt Street,	survey and stakeout,		
	23rd Floor	geotechnical		
	Baltimore, MD 20201	exploration, and		
		foundation design.		
Environmental Site	Jackson & Kelly, PLLC	Field reconnaissance,	N/A	100%
Assessment of Mine	1600 Laidley Tower	field measurements,		
Drainage from AML	Charleston, WV 25322	laboratory analysis,		
Sites, McDowell		and report summarizing		
County, WV		AMD.		
Construction Layout	WVDEP	Surveying and stakeout	\$3,500	3005
for Mahan Tipple and	Office of Abandoned	ructi		
Refuse AML Maintenance	Mine Lands Reclamation	contractor for AML		
Project, Fayette	Nitro, WV 25143	site.		
County, WV				
Construction Layout	WVDEP	Surveying and stakeout	\$2,000	100%
for Lynn Brook (Boud)	Office of Abandoned	for construction		
Drainage, AML	Mine Lands Reclamation	contractor for AML		
Reclamation Project,	Nitro, WV 25143	site.		
Kanawha County, WV				
TOTAL NUMBER OF PROJECTS:	. S.	TOTAL ESTIM	TOTAL ESTIMATED CONSTRUCTION COSTS:	
16 (POTESTA has Co	16 (POTESTA has completed well over 1000 p	projects.)	γ	\$90,870,872

16. CURR. ' ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A S. -CONSULTANT TO OTHERS

	CONSTRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$750,000	\$20,000			
	ESTIMATED CONS	ENTIRE PROJECT	\$60,000,000	\$750,000			
	ESTIMATED COMPLETION DATE		2009	2008			
	NAME AND ADDRESS OF OWNER		ZMM, Inc. 222 Lee Street, W. Charleston, WV 25302	Andropogon Associates, Ltd. 10 Shurs Lane Philadelphia, PA			
7. 5 7.5 miles (1.5 mi	NATURE OF FIRMS RESPONSIBILITY		Design Water Supply and Sanitary Sewer Systems	Site Utilities, Stormwater Management and Agency Coordination			
	FROJECI NAME, TYPE AND LOCATION		Bradshaw Schools Site Utilities	Charleston Greenspace Project			

17. CO. LETED WORK WITHIN LAS	JETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM	S THE DESIGNATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Sundial Refuse Pile Project, Raleigh County, WV	WVDEP, AMI 601 57 th Street, SE Charleston, WV 25304	\$3,900,000	2004	No
Georges Creek Rockslide Retaining Wall, Kanawha County, WV	WVDEP, AML 601 57 th Street, SE Charleston, WV 25304	\$430,000	2005	Yes
William Nursing Home Landslide Retaining Wall, Mingo County, WV	WVDEP, AML 601 57 th Street, SE Charleston, WV 25304	\$2,500,000	2005	Yes
Fisher Ridge Waterline Extension - Phase II, Putnam County, WV	Putnam County Commission 3389 Winfield Road Winfield, WV 25213	\$400,000	2004	Yes
Stephens Auto/Betsy Lane Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$250,000	2005	Yes
Trace Branch at Robinson Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$250,000	2006	Yes
Six Mile to Corridor G Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	000'009\$	2006	NO
Joes Creek Waterline Extension, Boone County, WV	Boone County PSD PO Box 287 Danville, WV 25053	\$750,000	2006	Yes
Cabell County Waterline Extension, Cabell County, WV	West Virginia American Water PO Box 1906 Charleston, WV 25327	\$3,000,000	2002	Yes

17. CC .ETED WORK WITHIN LAS'	JECT NAME, TYPE NAME AND ADDRESS	S THE DESIGNATED ENGINEER OF RECORD ESTIMATED CONSTRUCTION COST	D VEAR	CON RUCTED
AND LOCATION	OF OWNER		7	
City of Philippi Relocation of Waterline, Philippi, WV	City of Philippi PO Box 460 Philippi, WV 26416	\$1,000,000	2004	NO
Tucker County Industrial Park, Tucker County, WV	Tucker County Development Authority 215 First Street Parsons, WV 26287	\$1,100,000	2003	Yes
Mifflin-Sharples Waterline Extension, Logan County, WV	West Virginia American Water PO Box 1906 Charleston, WV 25327	\$600,000	2006	Yes
Mountain Laurel Potable Water Supply Extension, Logan County, WV	Mingo-Logan Coal Company PO Box E Sharples, WV 25183	\$450,000	2006	Yes
Kanawha Eagle Coal Refuse Disposal Impoundment, Ongoing, Kanawha County, WV	Kanawha Eagle Limited Liability Company PO Box 100 Winifrede, WV 25314	\$1,500,000	2003	Yes
Hampton-Clarke IQAT Closure Design Evaluation, Fairmont, WV	Hampton-Clarke, Inc. 175 Route 46 West Fairfield, NJ 07004	\$1,500,000	2003	Yes

18. C. LETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRE AS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATL HASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSTRIE)

OF WORK FOR WHI	OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)				WHEN PROPERTY AND A STATE OF THE STATE OF TH
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Sulphur Springs Bridge Replacement	West Virginia Division of Highways	Unknown	2003	Yes	W.R. Ramsey & Associates
Over Opequon Creek, Jefferson/Berkley County: WV	Capitol Complex, Bldg 5 Charleston, WV 25305				
Smith Bridge Replacement, Wetzel County, WV	West Virginia Division of Highways Capitol Complex, Bldg 5 Charleston, WV 25305	Unknown	2002	Yes	W.R. Ramsey & Associates
Martha Girder Bridge, Cabell County, WV	West Virginia Division of Highways Capitol Complex, Bldg 5 Charleston, WV 25305	Unknown	2003	Yes	Modjeski and Masters, Inc.
Martha Truss Bridge Replacement, Cabell County, WV	West Virginia Division of Highways Capitol Complex, Bldg 5 Charleston, WV 25305	Unknown	2003	Yes	Modjeski and Masters, Inc.
Blackwell Field Redevelopment, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$100,000	2005	Yes	BBL Carlton
Benedum Residence Hall Replacement, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$2,200,000	2004	Yes	BBL Carlton
don Bridg lacement,	West Virginia Division of Highways Capitol Complex, Bldg 5 Charleston, WV 25305	Unknown	2004	No	Modjeski and Masters, Inc.
UC Pharmacy School, Charleston, WV	University of Charleston 2013 MacCorkle Ave. SE Charleston, WV 25304	\$6,000,000 Our Fee \$55,000	2006	Yes	Pray Construction Company

description of resources supporting your firm's ndoned Mine Lands Program. his space to provide any additional information cications to perform work for the West Virginia. Use ğ 19.

Potesta & Associates, Inc.'s (POTESTA) "Expression of Interest for Professional Engineering Design Services and Construction Monitoring Services for the Prospect Valley Highwall #4 Project" supports this questionnaire in providing POTESTA's qualifications and resources for serving the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation on this project. In summary, POTESTA:

- Has assembled a team of in-house personnel and subcontractors who have historically worked on AML projects. POTESTA in-house staff includes 12 Professional Engineers including 10 in the primary office, three of whom has each worked on over 60 AML projects. . H
- Has a large local staff with a unique multidiscipline technical emphasis (including civil engineering, structural engineering, geological engineering, hydrological engineering, mine land reclamation, with a strong emphasis on water quality and aquatic life and toxicity). Two members of POTESTA's staff have their Ph.D.'s, and 12 have their Masters Degree. α,
- POTESTA employees have worked on and have experience Has 10+ employees with experience on WVDEP AML projects. in the following type of WVDEP AML projects: . ო
- Water Supply Feasibility Studies and Design
- Passive Acid Mine Drainage Treatment Reclamation of Refuse Piles Assessment of Contamination (e.g., PCB's, asbestos)
 - Demolition of Structures
 - Diversion Structures

Subsidence Assessment and Remediation

Wetland Assessments

USCOE Permitting

Sealing Mine Portals

Stream Relocations

- Identifying Acid Mine Drainage Inventory of Residential Water Supplies
 - Landslides
- Mine Fires
- since POTESTA has two Professional Engineer Can handle a substantial AML workload (more than our competitors) (P.E.) Project Managers each with experience on 60+ AML projects. 4,
- West Virginia in close proximity to WVDEP's Charleston office, with offices in Morgantown, West Virginia and Winchester, Virginia. Office is located in Charleston, . വ
- Staff has had a positive relationship with WVDEP, AML in the past, which we would like to continue. . ف

20. The foregoing is a statement of facts.					
Signature: Land L'Alund	Title:	Vice President	Date:	October 22, 2008	22, 2008
Printed Name: Dana L. Burns					

Civil Engineering and Design

Potesta & Associates, Inc. (POTESTA) helps clients evaluate and plan projects by completing the following types of preliminary investigations and analyses.

- Phase I environmental site assessments
- Floodplain determination
- Geotechnical explorations including soil, bedrock, and groundwater characterization
- Foundation recommendations
- Monitoring well systems and site characterization plans
- Boundary, topographical and photogrammetric surveys
- Utility planning
- Earthwork evaluations including volume analysis
- Opinion of probable costs/engineer's construction cost estimates

Once the project has been determined feasible, POTESTA's design professionals complete preliminary and final designs. Frequent communication is made with the client and any other design professionals to review completed activities and obtain input for the design process. Our goal is to provide our services to achieve or exceed our clients' expectations.

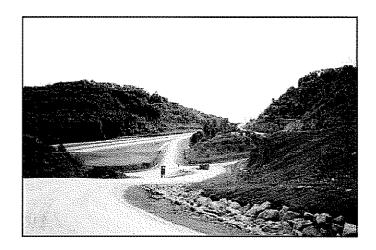
Our design services include:

- Erosion and sediment control plans
- Earth retaining structures design
- Geometric site layout
- Grading and drainage plans, including excavation and fill optimization
- Access road design
- Hydraulic structure design
- Water and sewer design
- Slope stability analysis
- · Subsurface drainage system design
- Construction drawings, specifications and contract document preparation

POTESTA offers experienced environmental engineers and scientists to prepare applications for various environmental permits that may be required. These services include:

- Stormwater management permit/erosion and sediment control plans
- Office of Air Quality Permit to Construct
- Wetland delineation and permits
- National Pollutant Discharge Elimination System (NPDES) permits
- Floodplain management permits
- Groundwater protection plans
- Spill prevention control and countermeasure plans
- Environmental site assessments
- Environmental impact statements

POTESTA routinely provides professional services throughout construction of our projects. These services include survey layout, construction management, construction monitoring, record drawing preparation, and bid evaluation assistance.





Computer Aided Drafting and Design

The Potesta & Associates, Inc. (POTESTA) computer-aided drafting and design (CADD) department provides state-of-the-art design and drafting services for in-house engineering and environmental consulting projects. We also provide personnel to clients who have a temporary need for additional drafting manpower. These services may be performed at your location or our office as required.

The CADD department utilizes the latest drafting/design software and computer hardware to maintain productivity at the high levels that clients demand and expect. We utilize AutoCAD, AutoCAD Land Development Desktop 3 civil/survey design software, and Microstation to prepare, revise, and manipulate drawings and engineering data efficiently. Drawings and figures are produced using a Hewlett Packard 1050c Plus color ink jet plotter. POTESTA's experienced and trained professionals allow clients' projects and assignments to be completed rapidly and at reasonable cost.

Our CADD services include:

 Survey data manipulation including development of topographic mapping, cross sections, profiles, isopach drawings, etc.

- Site design including grading plans, drainage plans, utilities plans, right-of-way plans, etc.
- Roadway design
- Water and sewer design
- Permit drawings, maps, and exhibits
- Earthwork and planimetric quantity development
- Two and three dimensional graphics



Construction Monitoring

Potesta & Associates, Inc. (POTESTA) provides construction monitoring and construction management services to assist clients in achieving regulatory and contractual compliance; to document that contractor activities are in compliance with design requirements; and to serve as an extension of clients' staff. POTESTA can provide full-time or part-time field services utilizing one or more engineers or technicians.

Regulatory compliance is often best documented by providing full-time construction monitoring services for a construction project. POTESTA can assist clients in observation of construction activities and documenting compliance. Our typical involvement in such projects includes:

- Conducting a pre-construction review of design and contract documents to identify potential problem areas, and consultation with the owner or client to develop strategies or procedures to avoid anticipated problems.
- Assistance in contractor selection. POTESTA can recommend construction contractors who specialize in the type of work associated with the project and can assist in bid evaluation by reviewing proposed quantities, unit costs, lump sum costs, and any proposed exceptions or qualifiers for the project. POTESTA can conduct pre-bid conferences to help contractors understand project requirements. We can also conduct pre-construction conferences prior to the start of the project to help establish lines of communication, review detailed plans, discuss testing requirements and establish proper reporting procedures.

POTESTA can provide surveying for construction layout, measurement for payment quantities, and documentation of as-built conditions. Survey results are downloaded to form computer-aided drafting (CAD) drawings allowing the efficient preparation of record drawings and any subsequent evaluations required.



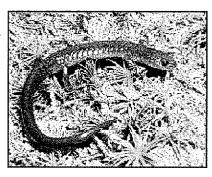
- Construction monitoring can include field testing to document compliance such as field density tests, concrete testing, sampling of materials for laboratory analysis, and documentation of site conditions and work performed on a daily basis or as required.
- Preparation of summary of construction reports including photographs, videotape documentation, test results, daily construction logs, industrial hygiene monitoring, and other documentation as may be required by the client.
- Preparation of certifications as may be required.



Endangered Species Consultation

The Endangered Species Act (ESA) requirements can delay if not halt important projects. Being able to respond promptly and thoroughly to the Fish and Wild-

life Service's (Service) requests for an evaluation of probable project impacts on either endangered species, threatened species, or species of concern can facilitate needed regulatory approvals.



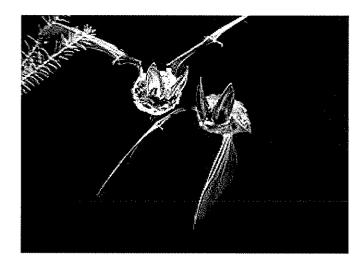
Potesta & Associates, Inc. (POTESTA) has extensive experience in biological assessments (BA) related to the ESA. We utilize a combination of inhouse professionals and recognized experts to complete projects for our clients. This arrangement allows us to provide a work product which is acceptable to the Service.

For the last several years, our office has worked with natural gas transmission companies preparing environmental reports which include assessments and remediation of impacts to rare, threatened, and endangered species. POTESTA's biologists have worked on natural gas projects within the core summer roosting and maternity range of the Indiana bat. This work provided the firm's biologists with considerable experience in identifying suitable Indiana bat habitat in Ohio, Kentucky, Virginia, and West Virginia. Other biologists within our office also have experience in bat surveys, echo location, bat identification and mussel surveys.

We have established professional relationships with local and regional experts on projects in our region. These relationships allow us to have access to recognized experts on the appropriate species on an as-needed basis. The advantage to the client is that this approach allows us to select the best individual for the task at hand.

These experts have specialized in the study of their species of interest for many years and are familiar with the life cycle, habitat requirements and sampling techniques for the species. POTESTA supplements these individuals with our experienced field staff, who are intimately familiar with the project, to constitute an effective team to respond quickly to threatened and endangered species issues. POTESTA provides final reports with additional information obtained from the noted expert, as well as relevant mapping and other supporting information.

This team approach allows for a complete evaluation of the potential impact a project may have on a species of concern. The most basic level of services in this area is a partial evaluation based only on literature reviews. An intermediate level of effort would be the literature review and a thorough field review of the project site to evaluate habitat. A complete evaluation would include the literature review, habitat evaluation, and extensive field collection program during the appropriate season of the year. Our subcontractors have the appropriate permits to collect the species in question.



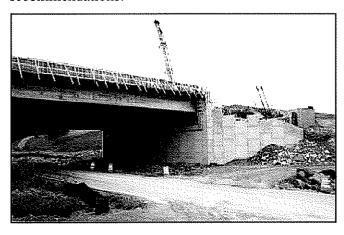


Geotechnical Engineering

Potesta & Associates, Inc.'s (POTESTA) engineers and geologists have extensive experience related to the geotechnical engineering and geological disciplines. These areas include subsurface investigations, monitoring well and piezometer installations, foundation design recommendations, slope stability analysis, and remedial designs as they relate to construction, mining, waste disposal, environmental remediation, and other projects.

SUBSURFACE INVESTIGATIONS

POTESTA's diverse staff of engineers and geologists is experienced in the many different facets of subsurface investigations. Our usual procedure is to attend an initial meeting with the client to establish requirements and expectations, conduct a preliminary site reconnaissance, and develop a recommended exploration program for your review and approval. Supplemental information from the local area is then obtained from readily available sources to assist the engineer or geologist in making final recommendations.



POTESTA can provide field engineers and geologists who are knowledgeable using the latest

technologies to assist in collecting and analyzing samples. Our knowledge of the proper procedures and familiarity with local conditions allows office and field personnel to adjust the investigative plan if unanticipated field conditions are found.

Our staff is familiar with the following items which can be associated with subsurface exploration:

- Drilling and Rock Coring Techniques (augers, rotary bits, Geoprobe[™], etc.)
- Sample Collection Methods (split spoons, shelby tubes, GeoprobeTM sleeves, etc.)
- Classification and Logging of Soil and Rock Samples
- Monitoring Well and Piezometer Installation

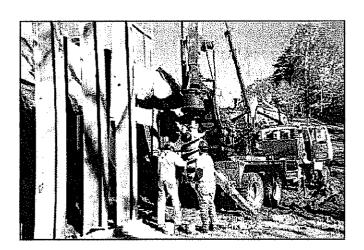
SLOPE STABILITY ANALYSIS AND REMEDIAL DESIGN

Slope stability is often a major concern during the design and construction phases of many projects, especially those located in the Appalachian terrain. POTESTA's engineers are familiar with the various methods utilized to predict slope stability and are capable of performing the related analyses. Slope stability is critical for many projects such as analysis of existing or proposed soil embankments, rock fills, dam analysis and design, landfill design and operation, estimating the causation of slope failure, and designing remedial measures. Analyses can involve circular or sliding block methods, interface friction angles, and estimation of the strength parameters of the soil or rock. Slope stability analyses are performed on one of the most technologically advanced computer programs available and can be modified using site specific data.

(see next page)



POTESTA's engineers can also develop preventive measures during initial project design or recommendations to repair slope failures. Based upon the project circumstances, our engineers will consider various remedial measures such as regrading the site to obtain more suitable conditions, management of groundwater, and design of retaining structures. Our staff is familiar with a wide variety of retaining structures, including gabion baskets, soldier beam and lagging walls, sheet piles, reinforced concrete and reinforced earth slopes.



FOUNDATION DESIGN RECOMMENDATIONS

POTESTA's staff has experience with various types of foundations and will recommend the appropriate type of foundation given the anticipated application and site conditions. The different types of foundations with which our staff is familiar are spread and strip footings, steel piles, auger-cast concrete piles, drilled piers, and reinforced mats.

Preliminary foundation design recommendations and cost analyses are commonly performed during the initial phases of a project to assist in determining project feasibility. As project planning progresses, the preliminary alternatives will be revised into a final recommendation which can then be incorporated into the project's construction documents or develop as an independent package for presentation to the contractor.

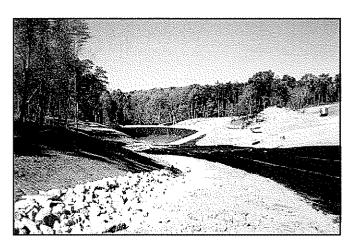
The final recommendation can include construction drawings, technical specifications, recommendations for allowable bearing capacity, engineer's construction cost estimate, and contractor's bid sheet.

Hydrology and Hydraulics Design

Our engineers have extensive experience in the application of hydrology and hydraulic principles to the design of real world systems. These applications include:

- Drainage structure sizing
 - Stream relocations
 - Culverts
 - Channels
- · Pond and dam design
 - Sediment ponds and basins
 - Spillways
 - Design/rehabilitation
 - Slurry impoundments
 - Lagoons
 - Dams
- Detention and detention systems
 - Ponds
 - Pipes
 - Underground bladders
- Floodplain Management Permits/Approval
- Floodway studies
 - FEMA (Federal Emergency Management Agency)
 - NFIP (National Flood Insurance Program)
 - Flood elevation surveys/certifications
 - Flood routing
- Dam break analysis
- Hydrology surveys
- · Stream gauging
- · Rainfall and flow data collection
- Stormwater drainage system design
- · Pressure pipe systems
- · Stream restoration plans
- Natural Stream Channel Design/Restoration
- Expert witness testimony

To complete these types of applications, our engineers, scientists, and surveyors work jointly to develop an effective and economical solution to your situation. Their analyses use widely accepted computer models.



Potesta & Associates, Inc. typically uses the following computer modeling programs:

- HEC RAS
- HEC HMS
- TR-20/TR-55
- StormCAD
- Culvert Master
- Flow Master
- Pond-Pac
- CORMIX

We have provided these services to a wide variety of public and private sector clients. Our staff not only understands the technical details, but is very experienced in working with the various state, federal, and local regulatory agencies. We know the level of detail they require and can obtain the necessary approvals in a timely manner.



Permitting Services

Potesta & Associates, Inc. (POTESTA) offers its clients exceptional expertise and experience when it comes to the permitting process, including all phases of application preparation, negotiations, modifications, compliance and renewal at all levels of government. Our permit services cover air, mining, water and waste disposal permits.

AIR

Our firm offers complete air permitting and consulting services to assist industry in complying with today's complex air quality regulations. Our staff has experience in identifying, characterizing and permitting air pollution sources for a variety of industries, including:

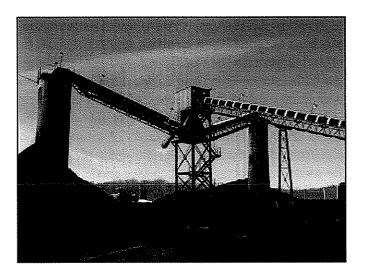
- · Coating operations
- Petroleum and petrochemical operations
- · Chemical manufacturing
- Manufacturing facilities
- Mining
- Quarries
- Natural gas compressor stations
- · Electric utilities

Our air quality experts have comprehensive knowledge of federal, state and local regulations, as well as experience in complex Title V applications. Our services include identification of potential air pollution sources, development of control strategies, preparation of permit applications, emissions inventories, compliance audits and regulatory liaison.

At both the state and federal levels, we help clients interpret and comply with air regulations, including the New Source Performance Standards (NSPS) and National Emissions Standards for Hazardous Air Pollutants (NESHAPS). We can suggest emissions control strategies to meet both current and anticipated regulations, including BACT, MACT and LAER.

MINING

In recent years, mining permits have become increasingly complex, requiring diverse expertise in mining techniques, engineering, environmental regulations, benthic studies, hydrogeology and hydrology. Our staff has broad experience in providing innovative solutions to various mining problems.



Although the objective of a permit application is to receive agency approval in a timely manner, the client does not benefit if the application does not allow for effective operations. We work with our clients to ensure that your operational needs are met while allowing for essential flexibility. Several members of our staff have mining industry experience, and they understand the requirements vital to an effective operation.

From the beginning of the permit process, POTESTA involves the reviewing agency to allow its concerns to be addressed prior to submittal of the application. Often, this reduces the need for review comments and revisions which could slow the approval process. Our thorough knowledge of the various phases and requirements of the permitting

(see next page)



process, coupled with our technical expertise, may facilitate the approval of permits that are operation based and thus more acceptable to you.

Our staff members have the knowledge and expertise to develop modification submittals that are timely and cost effective. We can also expedite permit renewal applications with minimal input from our busy clients.

WATER

The Clean Water Act regulates the discharge of pollutants into surface water through the National Pollutant Discharge Elimination System (NPDES). Potesta & Associates has extensive experience in water permitting projects, including industrial and municipal wastewater and storm water discharges.

Perhaps the most important aspect of the permitting process is determining the approach most beneficial to the client. Our personnel are familiar with both state and federal permitting strategies and can provide capable guidance for appropriate and applicable permits for a project.

Our staff specializes in reviewing facility wastewater flows and recommending methods of minimizing or eliminating these discharges. Our knowledge of alternatives for wastewater management can save clients money and potential liability.

We can help the client decide which type of permit coverage is required for a given project. Also, with our thorough understanding of state and federal wastewater permitting, we have been able to renegotiate numerous draft permits to achieve more acceptable requirements. POTESTA can prepare a draft NPDES permit for submission to the appropriate agency. This gives the client more input regarding the permit requirements. Our personnel are experienced in permit writing and will work closely with agency staff to insure that the permit meets both regulatory requirements and the needs of our clients.

WASTE

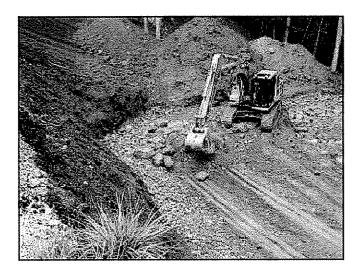
POTESTA is highly knowledgeable of the challenges faced in receiving a permit to allow proper disposal and/ or use of your waste products. Our staff has experience with municipal and industrial solid waste and construction demolition waste and hazardous waste. They have designed landfills, transfer stations, recycling facilities, closure plans and corrective action plans.

We have experience in:

- Bioremediation
- Resource recovery
- Sludge handling/stabilization
- Utilization of coal combustion by-products
- Construction monitoring/management

Our staff of civil, geotechnical, environmental and mining engineers, geologists, hydrogeologists, biologists and surveyors strives to obtain the maximum flexibility for your facility, whether it is a new operation, the modification of an existing facility, or a permit renewal. Regulatory liaison assistance is a key component in our efforts.





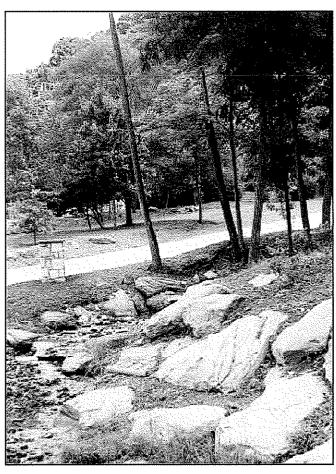
Potesta & Associates, Inc. has a significant body of work in site design for residential, commercial and industrial clients. Projects range from power plant siting to subdivision design. We have assisted numerous developers and development agencies with the creation of business industrial parks throughout West Virginia, and have been part of design teams for elementary, secondary and collegiate projects primarily associated with new building construction.

Our staff of civil, environmental, and geotechnical engineers; surveyors and environmental scientists can provide the following site planning and design services.

- Surveying topo and boundary
- Base mapping from aerial photography
- Geotechnical engineering
- Land planning
- Environmental issues evaluation and mitigation
- Site grading
- Vehicular and pedestrian circulation
- Utility design
- Site features
- Stormwater management plans

Some clients who have used our site design services include:

- West Virginia Development Office
- Development Authorities: Tucker, Wood and Roane Counties
- Bright Enterprises
- BIDCO (Capital Area Development Corporation)
- University of Charleston
- Timberwolf Development Corporation
- West Virginia Department of Environmental Protection
- West Virginia Division of Natural Resources
- Marshall University
- Architects: Associated Architects, Bastian & Harris, Architects, SEM Partners



Surveying and Mapping

Our surveyors are experienced in many aspects of surveying such as topographic mapping, boundary surveys (rural/farms, city lots, and subdivisions) and ALTA surveys, control surveys, flood certificate surveys, well location surveys, and construction surveys for layout of work, record drawings, and quantity measurements. Related areas include courthouse research, preparation of right-of-way plans, and verification of property owners. Potesta & Associates, Inc. (POTESTA) has licensed professional surveyors registered in West Virginia, North Carolina, South Carolina, Ohio, Virginia, and Pennsylvania. Their total combined surveying experience comes to well over 50 years.

POTESTA's surveyors use state-of-the-art equipment such as Topcon total stations, Trimble R-8 GNSS, and SMI Version 8 data collectors with SMI software. Reduction and design software used includes AutoCAD, Softdesk Civil/Survey design, Autodesk Land Design, Microstation, and InRoads design software.

POTESTA is equipped with modern surveying instruments, allowing efficient data processing and accurate gathering of field information. Total station instruments equipped with data collectors are utilized for complete field-to-office automation allowing for high levels of productivity in the field. The latest versions of software are then used to process survey data and create drawings or required end products. These products can be supplied to our clients in AutoCAD and/or Microstation format.

Small topographic mapping projects can be completed in-house using the aforementioned process. Larger projects are better suited for mapping using aerial

photography.

POTESTA can provide the necessary surveying required for establishing ground control for aerial mapping. As a quality control measure, aerial mapping is field checked for accuracy by surveying cross sections or random points.

Surveys completed by POTESTA are performed by or under the direction of a professional licensed surveyor. Surveys and mapping are completed to the standards outlined by the National Map Standards as well as other



applicable quality standards.

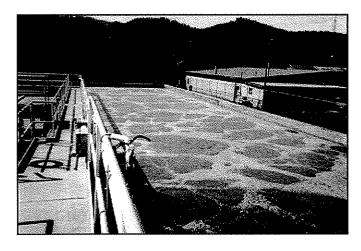
Our staff is experienced in global positioning surveys (GPS). GPS equipment, Trimble R-8 GNSS, and existing base stations are among POTESTA's surveying tools. Based upon the site location and ultimate use of the survey information, a recommendation is made to the client as to whether or not traditional survey or GPS is most applicable to their project.

Water and Wastewater Engineering

Our professional staff is dedicated to providing quality engineering services for various types of water treatment and distribution systems, as well as wastewater management, collection and treatment systems. The following is a list of some of the services Potesta & Associates, Inc. is capable of providing:

WATER AND WASTEWATER DESIGN

- Feasibility studies
- Conceptual design
- Final design
- Bidding and construction
- · Construction monitoring
- Wastewater audits
- Wastewater minimization studies
- Engineer's cost estimates
- Small flows design (traditional and innovative treatment systems for low volume flows)
- Sewage collection and treatment
- Water treatment and distribution
- Industrial wastewater treatment
- Remediation systems
- Landfill leachate treatment
- Storage tank design
- Flow measurement
- Surveying/GPS and mapping
- Permitting and regulatory liaison
- Combined sewer overflow (CSO)
 Management, sampling and modeling





STORMWATER MANAGEMENT

- Hydraulic conveyance structure design (culverts, channels, drop inlets, etc.)
- Stormwater retention/detention pond design
- Stormwater pond modeling
- Floodplain identification and management strategies
- Hydrologic and hydraulic analysis and evaluations and modeling
- Construction monitoring
- Surveying
- Permitting and regulatory liaison



Wetlands play a significant role in business and industry. These unique aquatic habitats can present problems with regard to development of properties because they are protected by the Clean Water Act.

Potesta & Associates, Inc. (POTESTA) has a qualified staff of scientists and engineers who are trained and experienced in the identification and permitting of wetlands, the mitigation of displaced wetlands and the design of constructed wetlands.

INVESTIGATION AND DELINEATION

Wetland investigations and delineations are conducted by POTESTA's scientists as part of pre-development site investigation and environmental impact assessments. During a wetland investigation, the site is examined for the presence of wetland indicators, including specific hydrology, soils and vegetation. Any wetlands discovered are delineated in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual (1987).

PERMITTING

Once wetlands have been identified and delineated, POTESTA can prepare application packages for permits to fill and/or dredge these areas for further development. The U. S. Army Corps of Engineers (COE) is the agency responsible for granting wetland permits under Section 404 of the Clean Water Act. In addition to the COE permit, individual states must approve each permit granted, certifying that it meets the state's water quality standards.

Our employees have established working relationships with both the federal and state agencies in this region. We are very familiar with the data required and can work with the agencies to obtain timely review and issuance of permits.



MITIGATION AND DESIGN

Wetland mitigation and design come into play when wetlands being displaced or filled are large enough to require mitigation under state and federal standards. In some cases, wetland mitigation can be achieved solely through the payment of a fee to a mitigation bank or fund, established for the creation, protection or enhancement of other wetland areas. In this case, POTESTA can prepare an appropriate mitigation offer and negotiate with state and federal authorities for its approval.

Depending upon the availability of suitable sites, wetland mitigation can also consist of the actual design and construction of new wetlands, or the enhancement of existing wetlands. Our staff includes qualified engineers experienced in the design of created wetlands. Working as a team with staff biologists, we can produce a cost-effective functional design for presentation to state and federal authorities. Once approved, we can provide monitoring of the construction of the new wetlands.

POTABLE WATER SUPPLY FOR MOUNTAIN LAUREL COMPLEX

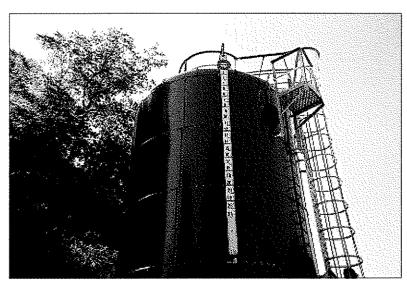
Mingo-Logan Coal Company

Logan County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained to provide engineering services for the potable water supply for a new deep mine complex in Logan County, West Virginia. The design concept involved extending water line from a nearby public water system to serve the proposed mine office, coal preparation plant, and bathhouse. Approximately 9,000 linear feet of 10-inch, 8-inch, 6-inch and 4-inch High Density Polyethylene (HDPE) water line were designed, as well as a water storage tank, booster station and blow-off assemblies. Services included:



- 1. Completing a hydraulic evaluation of the extension to size proposed water line, including developing estimated flow for the facilities.
- 2. Preparing drawings and specifications.
- 3. Preparing a permit application to the West Virginia Department of Health and Human Resources.
- 4. Providing bidding phase services, construction management services, and full-time construction observation.



POTESTA & ASSOCIATES, INC.

PERMITTING FOR LOWER WHITE OAK DRIVE WATER LINE EXTENSION

West Virginia-American Water Company

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by West Virginia-American Water (WVAW) to prepare permit applications for the Lower White Oak Drive water line extension in Boone County, West Virginia. The water line extension was to be constructed by the Boone County Public Service District (BCPSD), with WVAW providing operation and maintenance. The water line extension consisted of approximately 2,400 feet of 6-inch and 2-inch water line to serve eight new customers. Three crossings of White Oak Branch were included in the project.

POTESTA prepared the following permit applications:

- 1) For the three stream crossings:
 - United States Army Corps of Engineers, West Virginia Public Land Corporation (WVPLC), and West Virginia Department of Environmental Protection 401 water quality certification.
- 2) For installation with the right-of-way of a highway:
 - West Virginia Division of Highways (WVDOH) Highway Occupancy permit application.

POTESTA prepared the permit applications on short notice to expedite the start of construction. Construction commenced shortly after permits were received, and the water line installation was completed shortly thereafter.

BOONE COUNTY WATER SUPPLY PROJECTSWest Virginia-American Water Company

Boone County, West Virginia

POTESTA was selected by West Virginia-American Water Company (WVAWC) to provide engineering, construction-related and other services for multiple water line extensions. In addition, the firm assisted with the liaison between the Boone County Public Service District and WVAWC for the development of proposed county-wide water line extensions.

Specifically, POTESTA completed the following general tasks:

- Preparation/maintenance of inventory POTESTA prepared an inventory consisting of county-wide mapping showing existing served areas and unserved areas and proposed water line extensions. Approximately 59 proposed water line extensions were inventoried. The inventory assisted utility officials in identifying and prioritizing extensions.
- ♦ Preparation of water line extension layout and quantities POTESTA prepared mapping to layout proposed water line extensions for the following:

White Oak Drive	Jack Cradock Road	Betsy Lane
Briar Branch	Steven's Auto	Stollings Road
Easter Hollow	Hopkins Road	Frontage Road
Noble Lane	White House Branch	Laural Branch
Lick Creek Road	Mifflin	Tic Toc Tire
Corridor Extension	Joe's Creek	Dunlap Road
	Sylvester to Whitesville	_

The layouts included road, stream, and railroad crossing locations, approximate hydrant and booster station locations, tie-in locations, and proposed water line sizes and materials. From this, construction quantities for each extension were developed. Preliminary engineering reports and construction cost estimates were prepared as part of the West Virginia Infrastructure and Jobs Development Council applications for various extensions.

Construction Observation - POTESTA provided construction observation for the following extensions:

Peytona Estates at Racine	Ellis Branch at Six Mile	Bias Lane at Hager's Marke
Dunlap Road at Greenview	Middle Horse Creek Road	Upper Hewitt Creek
Little Horse Creek Road	Hewitt Creek	Herman Dolin Road
Julian Detention Center Ridgevi	iew Tank Site Burton	Street
Holley Hills Subdivision	Meadow Fork	Midway at Peytona
Workman's Branch at Madison	Tan Through Hollow-Bias	Bull Run-Jackie Baire

As part of this task, POTESTA developed record drawings showing the extensions.

Workman's Hollow-Vance Hollow

POTESTA & ASSOCIATES, INC.

BOY SCOUT CAMP WATER AND SEWER SYSTEMS AT DILLEY'S MILL

Buckskin Council - Boy Scouts of America

Dilley's Mill, Pocahontas County, West Virginia

Potesta & Associates, Inc. (POTESTA) worked with the Buckskin Council of the Boy Scouts of America (BSA), the West Virginia Department of Environmental Protection (WVDEP) and the West Virginia

Department of Health and Human Resources (WVDHHR) to correct problems with the existing drinking water and sanitary sewer systems at the Buckskin Reservation at Dilley's Mill, Pocahontas County, West Virginia.



After problems were discovered

at the camp, the BSA asked POTESTA to review the sanitary sewer system and make recommendations regarding the upgrade and replacement of the existing lines. POTESTA was also asked to evaluate the existing sewage lagoon to determine if the facility was of adequate size. A site review of well locations, tank site, sewage treatment lagoon and alignment and location of both water and sewer lines was completed, and a report on problems identified and recommendations for correction was submitted to the BSA.

POTESTA provided administration and oversight of closure and abandonment of two of the camp's drinking water wells and the drilling of a replacement potable water well. Evaluation, recommendations and a master plan for replacement of the existing sanitary sewer system were provided by POTESTA engineers. The camp's sewage treatment lagoon was evaluated and recommendations were made for completely rehabilitating the lagoon to meet current regulatory standards.

POTESTA provided regulatory liaison and assistance with the forms required for well closure and abandonment, installation of a replacement well and replacement of the existing sewer system. Bid packages were developed for the required work and POTESTA worked closely with the BSA to issue and administer the contract with the successful bidder. After evaluation, the sewage lagoon was found to need replacement, and POTESTA worked with the BSA to provide design and construction of the replacement facility.

POTESTA & ASSOCIATES, INC.

BUFF'S BRANCH/TRACE FORK WATERLINE EXTENSION

West Virginia-American Water Company

Putnam County, West Virginia



Potesta & Associates, Inc. (POTESTA) was retained by West Virginia-American Water Company (WVAWC) to prepare a design and develop bidding/construction documents for approximately 35,000 linear feet of 8-inch, 12-inch, and 16-inch diameter waterline following United States Route 34, and County Routes 34/21 and 48 in Putnam County, West Virginia. POTESTA utilized USGS topographic mapping enlarged to create base mapping for the project.

POTESTA performed field reconnaissance and coordination with public and private utilities to establish locations of underground utilities. Road drainage culverts were also added to the plan drawings.

Based on topography, existing utilities, and required service connection locations, POTESTA selected the proposed waterline location and prepared plan view drawings. The plan drawings included the proposed line location, type, and size; valve locations; hydrant

locations; connection details; meter settings; road crossings; and stream crossings.

POTESTA developed bid quantities and an engineer's cost estimate and developed a bid form using WVAWC approved format. POTESTA was also responsible for preparing permit applications to the West Virginia Department of Health, West Virginia Division of Highways, and West Virginia Division of Natural Resources Public Lands Corporation.

POTESTA & ASSOCIATES, INC.

CABELL COUNTY WATER LINE EXTENSIONS West Virginia-American Water Company

Cabell County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by West Virginia American Water Company (WVAWC) to design and prepare construction/bid documents for approximately 23 miles of 2 through 8-inch diameter waterline in Cabell County. WVAWC provided POTESTA with a

conceptual plan of proposed waterlines and aerial photography contact prints. POTESTA scanned contract prints to develop 24 inch x 36 inch drawings at an approximate scale of 1 inch = 100 feet. Over 40 plan view drawings were created.

POTESTA performed field reconnaissance and coordination with public and private utility companies to establish locations of underground utilities. Roadway drainage culverts were also added to the plan view drawings.



Based on the topography, existing utilities and service connection locations, POTESTA selected the proposed waterline location and added it to the plan view. POTESTA then completed hydraulic analysis using a computer flow model to design line sizes and evaluate pressures and fire flow. POTESTA prepared a calculation brief for submittal to the West Virginia Department of Health.

POTESTA finalized the design drawings showing proposed line location, type and size; valve locations; hydrant locations; connection details; meter settings; road crossings; stream crossings; and approximate property boundaries.

POTESTA developed bid quantities and an engineer's cost estimate and created a bid form using WVAWC approved format. POTESTA was also responsible for preparing permit applications for submittal to West Virginia Department of Health, West Virginia Division of Highways, West Virginia Division of Natural Resources, Public Land Corporation, and CSX Railroad.

POTESTA provided construction management, administration, and monitoring during the construction phase of the project.

POTESTA & ASSOCIATES, INC.

ENGINEERING SERVICES FOR WEST VIRGINIA PUBLIC SERVICE COMMISSION CASE AND TEMPORARY BOOSTER STATION

Town of Ceredo

Wayne County, West Virginia

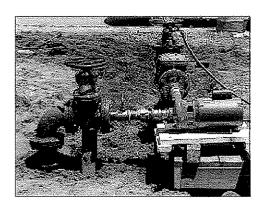
Potesta & Associates, Inc.(POTESTA) was retained by the Town of Ceredo to provide engineering services relative to a complaint case against the City of Kenova.

The City of Kenova sells water to the Town of Ceredo. After an upgrade to the City of Kenova's water system, the supply to the Town of Ceredo diminished, resulting in the Town of Ceredo utilizing a backup water source, "boil water" advisories being issued, and the Town of Ceredo filing a complaint against the City of Kenova with the West Virginia Public Service Commission (WVPSC). The Town of Ceredo retained POTESTA to provide engineering services to help address these issues.

As part of the services provided, POTESTA:

- 1. Evaluated the water supply from the City of Kenova, and provided recommendations on how to alleviate the problem.
- 2. Designed and prepared drawings and a West Virginia Department of Health and Human Resources application to allow installation of a temporary booster station to supplement the water supply from the City of Kenova.





POTESTA & ASSOCIATES, INC.

FAIRVIEW OAKS SUBDIVISION WATER LINE EXTENSION

Fairview Oaks, LLC

Morgan County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained to provide engineering services for extension of water service to a proposed subdivision just north of Berkeley Springs, West Virginia. POTESTA's services included:

- 1. Meeting with the Berkeley Springs Water Works (BSWW) to obtain information on the existing water system, identifying a path for the water line extension, and obtaining BSWW requirements for the water line extension;
- 2. Preparing base mapping for the water line extension (from two separate sources), and performing a site reconnaissance to locate site features;
- 3. Coordinating fire hydrant flow tests of the existing water system with BSWW to obtain data for hydraulic evaluation;
- 4. Completing hydraulic evaluation of the proposed water line, including evaluation of fire flow capacities, utilizing the computer program WATERCAD;
- 5. Preparing construction drawings and technical specifications;



Path of Water Line Extension

6. Preparing permit applications to the West Virginia Department of Health and Human Resources Office of Environmental Health Services and West Virginia Division of Highways, and interacting with those agencies until permits were issued.

Total extension length was approximately 4,200 feet.

POTESTA & ASSOCIATES, INC.

FEASIBILITY STUDY AND PREPARATION OF FUNDING APPLICATION FOR WATER SYSTEM EXPANSION City of Philippi

Philippi, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the City of Philippi to perform a feasibility study and subsequent funding application for a project involving upgrades to their existing potable water distribution system.

The project included the following:

- Hydraulic analysis of a sector of the City currently being served by an old storage tank.
- Conceptual design of:
 - 402,000 gallon storage tank
 - 16,000 gallon storage tank
 - 600 gpm booster station
 - 300 gpm booster station
 - -1,800 feet of 8" pipe
 - -2,000 feet of 6" pipe
 - Pressure reducing station

POTESTA prepared a preliminary engineering report and compiled the information necessary for a funding application with the United States Department of Agriculture - Rural Utilities Service (USDA-RUS). Additional services will include final design of the project components, preparation of construction drawings and technical specifications, permit applications, and construction monitoring.

POTESTA & ASSOCIATES, INC.

FISHER RIDGE WATER LINE EXTENSION PHASE II

Putnam County Commission/West Virginia-American Water Company

Putnam County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Putnam County Commission and West Virginia-American Water Company (WVAWC) to provide professional services for the Fisher Ridge Water Line Extension, Phase II in Putnam County. POTESTA's services included:

- 1. Revised existing construction drawings to depict construction of 11,000 linear feet of 8-inch diameter water line along Fisher Ridge Road;
- 2. Prepared an environmental impact statement for the federally funded project that resulted in a finding of no significant impact (FONSI);
- 3. Identified and collated bidding documents for the project, as required by the funding agency;
- 4. Prepared a preliminary estimate of probable construction cost;
- 5. Prepared a West Virginia Infrastructure and Jobs Development Council application (WVIJDC) and associated preliminary engineering report (PER) for funding agency purposes;
- 6. Assisted with a pre-bid meeting;





GEORGE'S CREEK (LUCAS) LANDSLIDE MAINTENANCE

West Virginia Department of Environmental Protection-Office of Abandoned Mine Lands

Kanawha County, West Virginia

POTESTA was retained by the West Virginia Department of Environmental Protection - Office of Abandoned Mine Lands (WVDEP) to evaluate and perform geotechnical engineering services for a landslide related to historic mining activity which was threatening a nearby residential structure.



A portion of the existing hillside immediately adjacent to the rear of the residential structure was excavated prior to construction of the structure to a near vertical slope exposing weathered shale and a coal seam near the slope's base. The exposed coal seam was determined to be the No. 2 Gas seam which was reportedly mined in the 1950s. Some drainage was noted flowing from the coal seam and the resulting water was conveyed through a nearby culvert to Georges Creek. Attempts were made by WVDEP to excavate loose rock and soil from the hillside in an effort to improve stability of the slope. Following this initial work the slope continued to slough with periodic small slides and slope

movement believed to be caused by continued subsidence of the underground mine works.

POTESTA performed a subsurface exploration to assist in evaluating the landslide condition, including the type and condition of the rock located in the slope as well as the attitude, thickness and condition of the underlying coal seam. POTESTA survey crews also completed a topographic survey of the affected area including the surrounding residential structure, drains and wooded hillside. The remedial measures to correct the landslide area included the design of a 25-foot high steel soldier beam and concrete lagging retaining wall with sloped, compacted backfill constructed from on-site materials. The retaining wall design required the application of a rock anchor tie-back system due to mine voids existing at the base of the hillside slope that were encountered during the subsurface exploration

As part of the project, POTESTA assisted the WVDEP with contract administration and performed construction observation services during the construction phase.

POTESTA & ASSOCIATES, INC.

Project Abstract

MAHAN TIPPLE AND REFUSE AML MAINTENANCE PROJECT

Thaxton Construction Company

Fayette County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Thaxton Construction Company to provide construction layout for the Mahan Tipple and Refuse Maintenance AML Project in Fayette County, West Virginia. Thaxton Construction Company had been contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform maintenance on an AML refuse pile, originally reclaimed in the late 1980's, that had a significant failure near the toe of the refuse pile.

Proposed maintenance included excavation of material near the toe, installation of a rock buttress at the toe (approximately 1,000 cubic yards), installation of two grouted riprap channels totaling approximately 300 feet, and regrading and revegetation. Total proposed excavation was approximately 10,000 cubic yards. Construction documents for the project were prepared by another consultant.

POTESTA's tasks for the project included:

- 1. Construction layout of lines/grades for earthwork, including survey of "pre-construction" and "post-construction" cross sections.
- 2. Construction layout of proposed channels.
- 3. Computation of (or assistance with) certain as-built quantities, including earthwork, channels, and revegetation.
- 4. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

MIFFLIN-SHARPLES WATER LINE EXTENSION West Virginia American Water

Logan County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained to provide engineering services for extension of water lines in the Mifflin-Sharples areas of Logan County, West Virginia.

The design concept involved extending West Virginia American Water line from Boone County to the Logan County Public Service District's (LCPSD) Sharples system and providing service to approximately 25 new customers, and then extending water line south along State Route 17 to a new deep mine complex. Approximately 11,000 linear feet of 8-inch, 6-inch and 2-inch water line



were designed, as well as numerous connections to existing water line, upgrade of existing water line, and rehabilitation of LCPSD's water storage tank. Services included:

- 1. Completing a hydraulic evaluation of the extension to size proposed water line, including flow testing of the existing LCPSD system.
- 2. Preparing drawings, specifications, and a cost estimate.
- 3. Preparing permit applications to the West Virginia Department of Health and Human Resources, CSX Transportation (for a railroad crossing), West Virginia Division of Highways, U. S. Army Corps of Engineers and West Virginia Public Land Corporation, and interacting with those entities until permits were issued.
- 4. Providing bidding phase services, construction management services, and full-time construction observation.

Construction was completed under budget.

POTESTA & ASSOCIATES, INC.

PERMITTING AND CONSTRUCTION DRAWINGS FOR TRACE BRANCH AT ROBINSON WATER LINE EXTENSION

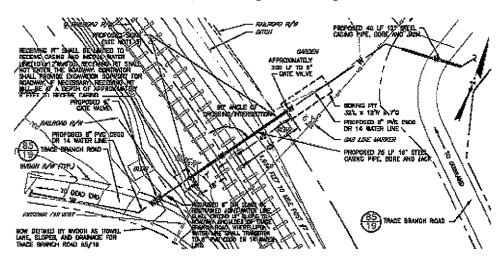
Boone County Public Service District

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Boone County Public Service District to prepare permit applications and construction drawings for the Trace Branch at Robinson Water Line Extension. Approximately 3,100 feet of 6-inch and 2-inch water line was designed with multiple stream crossings, roadway crossings, and a railroad crossing. Services associated with the design included:

- 1. Surveying for the railroad crossing and conducting direct correspondence with the CSX Transportation to determine acceptable railroad crossing criteria. Challenges with the railroad crossing design included complications associated with the close proximity of existing structures, and topographical restraints limiting casing length and water line depth;
- 2. Preparation of construction drawings that presented the proposed water line extension;
- 3. Preparation of permit applications to the West Virginia Division of Highways, West Virginia Department of Health and Human Resources, West Virginia Public Land Corporation, United States Army Corps of Engineers, and CSX Transportation.

Railroad Crossing Plan Drawing



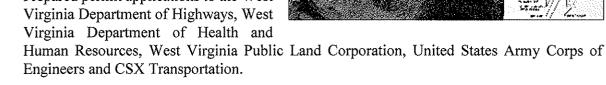
POTESTA & ASSOCIATES, INC.

PERMITTING AND CONSTRUCTION DRAWINGS FOR STEPHENS AUTO/BETSY LANE WATER LINE EXTENSION **Boone County Public Service District**

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Boone County Public Service District (BDPSD) to prepare permit applications and construction drawings for the Stephens Auto/Betsy Lane water line extension. More specifically, POTESTA:

- Surveyed a proposed railroad crossing:
- Prepared construction drawings that presented the proposed water line extension: and
- Prepared permit applications to the West Virginia Department of Highways, West Virginia Department of Health and



The construction drawings depicted a water line extension that included approximately 4,800 linear feet of 6-inch and 2-inch water line, two fire hydrants, one river crossing, one railroad crossing and 19 potential customers.

Permits were issued and the water line extension was constructed using a combination of "in-house" and contractor personnel.

POTESTA & ASSOCIATES, INC.

PERMITTING AND CONSTRUCTION DRAWINGS FOR TRACE BRANCH AT ROBINSON WATER LINE EXTENSION

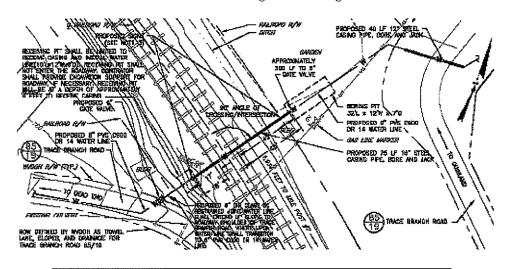
Boone County Public Service District

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Boone County Public Service District to prepare permit applications and construction drawings for the Trace Branch at Robinson Water Line Extension. Approximately 3,100 feet of 6-inch and 2-inch water line was designed with multiple stream crossings, roadway crossings, and a railroad crossing. Services associated with the design included:

- 1. Surveying for the railroad crossing and conducting direct correspondence with the CSX Transportation to determine acceptable railroad crossing criteria. Challenges with the railroad crossing design included complications associated with the close proximity of existing structures, and topographical restraints limiting casing length and water line depth;
- 2. Preparation of construction drawings that presented the proposed water line extension;
- 3. Preparation of permit applications to the West Virginia Division of Highways, West Virginia Department of Health and Human Resources, West Virginia Public Land Corporation, United States Army Corps of Engineers, and CSX Transportation.

Railroad Crossing Plan Drawing



POTESTA & ASSOCIATES, INC.

POCA RIVER WATERLINE EXTENSION

West Virginia American Water Company

Putnam County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by West Virginia American Water Company (WVAWC) to prepare a design and develop bidding/construction documents for approximately 68,000 linear feet of 6 to 8-inch diameter waterline following the Poca River in Putnam County. POTESTA utilized USGS topographic mapping enlarged to create base mapping for the project.

POTESTA performed field reconnaissance and coordination with public and private utilities to establish locations of underground utilities. Road drainage culverts were also added to the plan drawings.

Based on topography, existing utilities, and required service connection locations, POTESTA selected the proposed waterline location and prepared plan view drawings. The plan drawings included the proposed line location, type, and size; valve locations; hydrant locations; connection details; meter settings; road crossings; and stream crossings.

POTESTA developed bid quantities and an engineer's cost estimate and developed a bid form using WVAWC approved format. POTESTA was also responsible for preparing permit applications to the West Virginia Department of Health, West Virginia Division of Highways, and West Virginia Division of Natural Resources Public Lands Corporation.

POTESTA provided construction management, administration and monitoring during the construction phase of the project.

POTESTA & ASSOCIATES, INC.

PRELIMINARY ENGINEERING FOR THE JOE'S CREEK WATER LINE EXTENSION

Boone County Public Service District

Boone County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Boone County Public Service District (BCPSD) to complete preliminary engineering services associated with the proposed Joe's Creek water line extension in Boone County, West Virginia. The BCPSD was evaluating extension of water lines in the Joe's Creek area, and requested assistance with preliminary sizing of lines and other features, and preparation of estimates of probable construction and total project costs.

To complete the project, POTESTA:

- a. Performed a site reconnaisance to locate the pathway of the water line, identify potential customers, etc.;
- b. Met with utility officials to identify location and capacity of existing water system infrastructure;
- c. Completed hydraulic calculations to size the water line;
- d. Prepared a report summarizing the effort with attached calculations, drawing depicting a layout of the extension, and cost estimates.

The preliminary design anticipated approximately 9,000 linear feet of 8-inch water line, 7,000 linear feet of 6-inch water line, and 1,000 feet of 2-inch water line to serve 64 customers. Fire flow service was proposed for lower elevation areas. A 35-gallon per minute hydropneumatic booster station/tank was proposed to serve higher elevation areas. The preliminary estimate of probable construction cost was \$650,000.

POTESTA completed the project on a fast track (two-week) schedule.

POTESTA & ASSOCIATES, INC.

PRELIMINARY INVENTORY OF TOWN OF PINEVILLE WATER SYSTEM

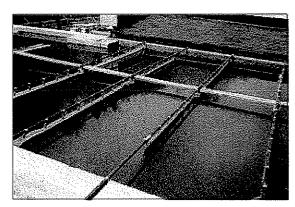
West Virginia-American Water Company

Pineville, West Virginia

The Town of Pineville operates a public water system that provides water to approximately 1,175 customers in and around Pineville. Included in the water system is a water treatment plant, water storage tanks, and booster stations. West Virginia-American Water Company retained Potesta & Associates, Inc. to prepare a preliminary inventory of the Town of Pineville water system.

To complete the preliminary inventory, POTESTA:

- Reviewed information on the Pineville water system provided by WVAWC.
- Reviewed West Virginia Bureau for Public Health (WVBPH) files on the water system.
- Met with Pineville water system
 officials to review and discuss the
 existing water system, including a
 "tour" of the water system, with
 particular emphasis on observation of
 the water treatment plant, water storage
 tanks and booster stations.



- Reviewed the latest copy of the WVBPH Sanitary Survey of the Pineville water system.
- Contacted the West Virginia Public Service Commission (WVPSC) to identify customer complaints.
- Contacted the WVBPH to discuss concerns they may have regarding the water system, including identification of Administrative Orders.
- Contacted WVAWC employees familiar with the water system to discuss concerns they may have.
- Prepared a report summarizing the preliminary inventory.

POTESTA & ASSOCIATES, INC.

RED JACKET REFUSE PILE CONSTRUCTION LAYOUT-AML RECLAMATION PROJECT

Thaxton Construction Company

Mingo County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by Thaxton Construction Company to provide construction layout for the Red Jacket Refuse Pile AML Project in Mingo County, West Virginia. Thaxton Construction Company was contracted by the West Virginia Division of Environmental Protection (WVDEP) Office of Abandoned Mine Lands and Reclamation (AML) to perform reclamation on an AML refuse pile.

Proposed reclamation included regrading a 500-foot long coal refuse pile and revegetation. Construction documents were prepared by others.

POTESTA's tasks for the project include:

- 1. Survey of "pre-construction" and "post-construction" cross sections.
- 2. Computation of (or assistance with) certain as-built quantities, including earthwork and revegetation.
- 3. Submittal of "post-construction" cross section drawings depicting existing and final grades.

POTESTA & ASSOCIATES, INC.

RELOCATION OF WATER LINE City of Philippi

Philippi, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained to prepare construction documents, prepare permit applications, and provide as needed construction monitoring for relocation of water lines disrupted by the West Virginia Division of Highways' (WVDOH) Philippi Bridge Bypass Project.

Included in the proposed relocation was:

- ♦ 1000 feet of 12-inch ductile iron pipe,
- ♦ 1100 feet of 8-inch ductile iron pipe,
- ♦ 800 feet of 6-inch ductile iron pipe,
- ♦ 200 feet of 4-inch ductile iron pipe,
- ♦ 1000 feet of service line,
- ♦ 13 valves, and
- Associated appurtenances such as meters, fire hydrants, and steel casing.

Care was taken to relocate lines to areas not interfering with proposed highway construction, existing utilities, and other proposed relocated utilities.

POTESTA prepared plan drawings showing the relocated water line; detail drawings showing trenches, pavement replacement, stream crossings, valve settings, pay items, and quantities; and specifications. Permit applications were prepared and submitted to the West Virginia Bureau for Public Health, United States Army Corps of Engineers, and the West Virginia Public Lands Corporation.

Work was coordinated with the WVDOH, City of Philippi, and another engineering firm preparing the design of relocated sanitary lines.



POTESTA & ASSOCIATES, INC.

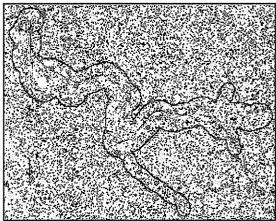
SOURCE WATER ASSESSMENT PROTECTION PROGRAM

West Virginia Bureau for Public Health

Potesta & Associates, Inc. (POTESTA) assisted the West Virginia Bureau for Public Health (WVBPH) by providing source water assessment services associated with WVBPH's Source Water Assessment and Protection Program (SWAPP). The source water assessment locates potential contaminant sources that are within a zone of critical concern (ZCC) along the intake stream and its tributaries. POTESTA's services included:

- Obtained and reviewed water quality data for violations of maximum contaminant levels allowed by the Environmental Protection Agency and obtained United States Geological Survey stream flow data.
- Surveyed ZCC for potential contaminant sources (PCS) that could impact the
 intake stream and confirmed their location using a handheld Global Positioning System
 (GPS).
- 3. Input PCS stream flow, water quality and land area data into Microsoft Access database.
- 4. Merged Microsoft Access Database with ArcView 3.2a software to provide a graphical representation of the PCS data collected from the field.
- 5. Prepared digital topographic mapping, including rivers, major roadways and potential contaminant sources for each public water system utilizing ArcView 3.2a software, GPS data collected during the field survey, and data from the WVBPH.
 - Prepared detailed summary reports for each public water system identifying PSCs and issues such as vandalism at the drinking water treatment plant and public water system plans for low water situations.

The West Virginia Bureau for Public Health used the electronic format maps POTESTA created using ArcView 3.2a software as well as data collected during the windshield survey to target allocation of available funds for further investigation and improvement of the public water systems.



Map showing ZCC (red) and PCSs (circles) against 7.5' topographic map.

POTESTA & ASSOCIATES, INC.

SPITE ROAD WATERLINE EXTENSION CONSTRUCTION ADMINISTRATION AND OBSERVATION

West Virginia-American Water Company

Putnam County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by West Virginia American Water Company (WVAWC) to provide construction administration/observation for construction of approximately 13,000 linear feet of 2-inch and 8-inch diameter waterline following Spite Road in Putnam County.

As part of POTESTA's construction administration and monitoring, POTESTA:

- 1. Attended meetings as needed;
- 2. Assisted with review of change orders;
- 3. Provided a nearly full-time representative to observe construction;
- 4. Reviewed contractor invoices and made recommendations regarding payment;
- 5. Prepared weekly reports summarizing construction activities;
- 6. Provided record drawings showing "as-built" features;
- 7. Handed out "welcome packets" to customers.

Construction proceeded smoothly, and the water line was installed. Throughout the project, POTESTA interacted with WVAWC, the West Virginia Division of Highways (WVDOH), and other entities with an interest in the project.

POTESTA & ASSOCIATES, INC.

TUCKER COUNTY INDUSTRIAL PARK CONSTRUCTION OF ADDITIONAL WATER AND SEWER LINE

Tucker County Development Authority

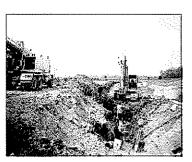
Tucker County, West Virginia

After completion of initial construction at the Tucker County Industrial Park, additional monies remained. The owner, Tucker County Development Authority, authorized Potesta & Associates, Inc. (POTESTA) to prepare bidding documents for construction of additional water and sewer lines at the site, using the remaining monies. More specifically, POTESTA:

- 1. Completed ground survey to develop topographic mapping to reflect "as-constructed" conditions after the first phase.
- Prepared drawings and specifications depicting the construction of an additional 1,000 feet of gravity sewer line including five manholes, and 500 feet of additional water line, including construction through wetlands and across a stream.
- 3. Prepared permit applications for crossing of the stream and wetlands, and to obtain approval from the West Virginia Bureau for Public Health.
- 4. Prepared bidding documents and coordinated obtaining approval from the United States Economic Development Agency.
- 5. Presented the project at a pre-bid meeting.
- 6. Compiled contractor bid information.
- 7. Provided construction phase services, including attending a preconstruction meeting, reviewing and commenting on shop drawings on manholes, pipe and other materials; and providing nearly full-time construction observation services.

The additional water and sewer lines were successfully installed.





POTESTA & ASSOCIATES, INC.

TUCKER COUNTY INDUSTRIAL PARK

Tucker County Development Authority

Davis, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained to prepare construction documents for all the infrastructure improvements for Tucker County's new 162-acre industrial park along WV Rt. 93 near



Davis, West Virginia. The site will provide almost 80 acres of developable land for new business interests in Tucker County.

The site includes significant wetlands within the developable acreage, requiring POTESTA to develop both utility extensions (water and sewer) and access road design that avoided most of the wetlands, yet serviced the entire park. The water and sewer lines for the park tie into the City of Davis's existing system. Over 8,000 linear feet of 8" water line and 6,500 linear feet of 3" force main sewer line were extended from Davis.

A 75-gallon per minute lift station was designed within the park at the lowest possible elevation and located to allow gravity sewer to follow the new access road, providing nearby sewer service to the most developable land.

The construction cost for this project was \$1.1 million and the design was fast-tracked and completed in a 4-month time frame because of grant requirements of the U. S. Economic Development Administration. Construction was completed within the grant time frame. The project entailed permit applications from the U. S. Army Corps of Engineers for wetland



disturbance, WV Department of Health for sewer and water extensions, WV Department of Environmental Protection for stormwater management and erosion control (NPDES) and WV Public Lands Corporation for stream crossings. Road design was reviewed and approved by the WV Division of Highways because the Division was providing grant funding for the 2,000-foot access road.

POTESTA & ASSOCIATES, INC.

UNITED STATES ROUTE 60 UPGRADE

West Virginia-American Water Company

Putnam County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by West Virginia-American Water Company (WVAWC) to prepare a design and develop bidding/construction documents for approximately 18,000 linear feet of 16-inch diameter waterline following United States Route 60 in Putnam County. POTESTA utilized USGS topographic mapping enlarged to create base mapping for the project.

POTESTA performed field reconnaissance and coordination with public and private utilities to establish locations of underground utilities. Road drainage culverts were also added to the plan drawings.

Based on topography, existing utilities, and required service connection locations, POTESTA selected the proposed waterline location and prepared plan view drawings. The plan drawings included the proposed line location, type, and size; valve locations; hydrant locations; connection details; meter settings; road crossings; and stream crossings.

POTESTA developed bid quantities and an engineer's cost estimate and developed a bid form using WVAWC approved format. POTESTA was also responsible for preparing permit applications to the West Virginia Department of Health, West Virginia Division of Highways, and West Virginia Division of Natural Resources Public Lands Corporation.

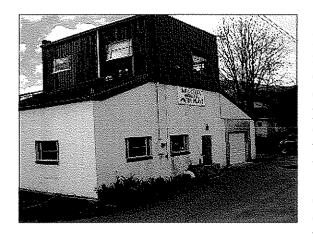
POTESTA & ASSOCIATES, INC.

WATER LOSS EVALUATION PLAN FOR THE MILL CREEK WATER DISTRIBUTION SYSTEM Town of Mill Creek

Randolph County, West Virginia

The Town of Mill Creek operates a potable water treatment and distribution system that serves 370 residential customers and 10 industrial/commercial customers. The system dates back to the early 1900s, with major upgrades occurring in the 1960s, and extensions added in the 1990s. The West Virginia Department of Health and Human Resources had expressed concern for the large quantities of unaccountable water produced at the Mill Creek water plant (over 50% of total water production). The Town of Mill Creek worked with other agencies to find possible leaks,

but was not able to locate a significant problem.



Potesta & Associates, Inc. (POTESTA) was retained to prepare a plan to evaluate the distribution system to identify areas that experience water loss. In order to create the plan, POTESTA obtained the town's water distribution system mapping and met with a town representative to review the system. With this information, POTESTA developed a plan to isolate various regions throughout the water distribution system and install leak detection equipment to monitor each region. Provided in the plan were detailed instructions on how to

isolate each region and estimates of construction and total project cost to install the leak detection equipment.

Also included in the water loss evaluation plan was a second option to improve the water distribution system. This option included replacement of approximately 2,000 feet of a water main that had reoccurring maintenance issues and the addition of a booster station to improve service to customers with low water pressure. Construction and total project cost estimates were also provided for the second option.

POTESTA continues to work with the Town of Mill Creek to assist in monitoring the leak detection equipment and evaluation of the results, and in obtaining funding for implementation of improvements.

POTESTA & ASSOCIATES, INC.

WEST VIRGINIA INFRASTRUCTURE AND JOBS DEVELOPMENT COUNCIL APPLICATION FOR THE LICK CREEK - PHASE I WATER LINE EXTENSION

West Virginia-American Water Company

Boone County, West Virginia

POTESTA was selected by West Virginia-American Water Company (WVAWC) to prepare an application package to the West Virginia Infrastructure and Jobs Development Council (WVIJDC) to help obtain various funding sources for the Lick Creek-Phase I water line extension in Boone County. The application package was prepared on behalf of the Boone County Public Service District and included a Preliminary Application Form and a Preliminary Engineering Report (PER).

POTESTA completed the Preliminary Application Forms consisting of the following sections:

- Administrative and Identifying Information and Data
- Engineering Information and Data
- Budget and Financial Information
- Job Creation
- Wastewater Discharge and Air Quality

Included in the Preliminary Application Form was the PER. The report addressed topics such as existing conditions, future conditions, project alternatives, plan selection and public participation, environmental concerns, project summary and schedule, lands and rights-of-way, public health benefits, and evidence of filing and compliance.

The preliminary design anticipated approximately 17,700 linear feet of 8-inch water line, 900 linear feet of 6-inch water line, and 3,475 feet of 2-inch water line to serve 190 customers. Fire flow service was proposed. Additionally, the water line extension included upgrading of existing services. The preliminary estimate of probable construction cost was \$1,300,000. The US Army Corps of Engineers was proposed to contribute \$1,000,000 and WVAWC would contribute \$300,000.

Based on the findings by the WVIJDC, this project was determined to be technically feasible within the guidelines of the Infrastructure and Jobs Development Act and WVIJDC provided a recommendation that the proposed funding scenario be pursued.

POTESTA & ASSOCIATES, INC.

WVIJDC APPLICATION AND PRELIMINARY ENGINEERING –TOWN OF CEREDO MUNICIPAL WATER DEPARTMENT DISTRIBUTION SYSTEM UPGRADE

Town of Ceredo

Wayne County, West Virginia

Potesta & Associates, Inc. (POTESTA) was retained by the Town of Ceredo to evaluate deficiencies in its water distribution system and prepare a funding application for monies to implement upgrades to the system, including deficiencies identified in an order from the West Virginia Public Service Commission. More specifically, POTESTA:

- 1. Evaluated two alternatives for the upgrade that generally differed by whether West Virginia American Water or the Town of Ceredo would serve approximately 215 existing customers east of Twelvepole Creek. Each alternative included upgrades in water lines, installation of fire hydrants, and replacement of the town's approximate 100-year old reservoir. Preliminary estimates of probable construction cost, operation/maintenance costs, debt service, total project costs, and potential customer rates were estimated for each alternative. One alternative had an estimated total project cost of \$2,100,000, while the other had an estimated total project cost of \$4,300,000. Results of the evaluation were summarized in a preliminary engineering report.
- 2. Prepared a West Virginia Infrastructure and Jobs Development Council (WVIJDC) preliminary application for funding of the recommended alternative. The West Virginia Drinking Water Treatment Revolving Fund was identified as the source of funding. The WVIJDC application and preliminary engineering report were then submitted to the WVIJDC for approval.

POTESTA & ASSOCIATES, INC.