CENTURY ENGINEERING
10 North Third Street Oakland, Maryland 21550 301-334-2305

December 3, 2010

Chuck Bowman, Buyer Supervisor
Purchasing Division
2019 Washington Streeet, East
P.O. Box 50130
Charleston, WV 25305-0130

Subject: Introduction Letter for RFQ # DEP15235
Shinnston Portals & AMD

Mr. Bowman:

Century Engineering Inc., located in Oakland, Maryland, is pleased to submit one original, one convenience copy, and one copy on CD of our proposal for engineering services for the Shinnston work per your RFP #DEP15235. We have familiarized ourselves with the project requirements and nature of the assignment and carefully reviewed the Request for Proposal Package. Attached are details of our qualifications, experience and scope, projects that we have completed study and design services.

Century Engineering, Inc. is a full-service, professional engineering firm offering expertise in Civil, Survey, Geotechnical, Landscape Architecture, Mechanical, Electrical, Plumbing, Structural, Environmental and Transportation engineering. With a focus on transportation and facilities, we have participated in many of the larger infrastructure and civic improvements developed in the Mid-Atlantic Region during the past half century. Employing approximately 350 professionals and support personnel, Century specializes in transportation and infrastructure planning and design, a host of commercial, industrial, residential, retail and governmental projects, and shipyard and marine facilities. The Oakland office handles work in western Maryland and West Virginia and will be the office handling this project if Century receives the contract. Therefore, the information in this submission relates to the Oakland office only instead of trying to elucidate upon the entire company's abilities.

We thank you for the opportunity to work with you, and we look forward to providing engineering services for you on this project. If you have any questions, or require additional information, please contact us. Thank you for your careful consideration of the **Century Engineering Team**.

Sincerely,
Century Engineering, Inc.

Aaron J. Teets, P.E., Prof.L.S

Attachments

CENTURY ENGINEERING
10 North Third Street Oakland, Maryland 21550 301-334-2305

December 3, 2010

Chuck Bowman, Buyer Supervisor
Purchasing Division
2019 Washington Streeet, East
P.O. Box 50130
Charleston, WV 25305-0130

Subject: Scope of Work for RFQ # DEP15235
Shinnston Portals

Mr. Bowman:

Century Engineering Inc. has familiarized ourselves with the project requirements and nature of the assignment and carefully reviewed the Request for Proposal Package. The following is an outline of the scope of work required for this project.

Century must provide sufficient topographic mapping for the site to properly identify all project work areas. This includes locating and mapping the portals, existing roads, drainways, and debris. Century will also need to extend the mapping around areas that may be graded to provide tie-in points. The mapping will require a substantial amount of effort given the length of roadway and highwalls. The project extends over a large area and Century will utilize GPS to provide a reliable, reproducible survey datum, West Virginia State Plane Coordinates.

The mapping and models must be analyzed to determine the approximate original ground contours. A new model for the original ground will be created and used for determining volume of material needed to be imported and for construction stakeout.

The proposed access road must be mapped, designed, and plans prepared for a contractor's use during construction.

Century would like to review the site and determine if some off-site drainage controls could reduce the amount of water flowing from the portals. A reduction in water entering the mines would improve water quality without any treatment.

The portals will need to be excavated and dewatered prior to the installation of the mine seals. These drainage channels must convey water safely off-site. Century would like to utilize some (Acid Mine Drainage) AMD treatment techniques on this water prior to discharge in an attempt to improve its pH and alkalinity. The use of limestone channels, anoxic drains, oxic drains, limestone diversion wells, and/or limestone dosing could reduce the harmful effects of the AMD.

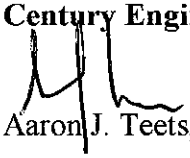
Century's Oakland office has over 50 years of cumulative experience doing site development projects with topographic mapping, earthwork, and road construction. Most of Century's work has been in Maryland, which has strict erosion/sediment control and

stormwater regulations because of the Chesapeake Bay. Century would like to apply this experience and knowledge to West Virginia's mine remediation problems. Most of the Oakland office is from West Virginia and currently reside there. The size of our office dictates multi-disciplinary skills in all of our employees while the size of the company provides immediate access to resources not available to most engineering firms.

We thank you for the opportunity to work with you, and we look forward to providing engineering services for you on this project. If you have any questions, or require additional information, please contact us. Thank you for your careful consideration of the **Century Engineering Team**.

Sincerely,

Century Engineering, Inc.



Aaron J. Teets, P.E., Prof.L.S

Attachments

MORGAN C. FRANCE, L.S, P.E

EDUCATION

BS 1964 California State College
MS 1968 University of Pennsylvania
Additional Engineering Classes
1982 West Virginia University

PROFESSIONAL REGISTRATIONS

SURVEYOR

1976	Pennsylvania	#024925E
1976	West Virginia	#575
1978	Maryland	#126

ENGINEER

1984	Maryland	#14378
1994	West Virginia	#12499

WORK EXPERIENCE

Mr. France has provided engineering and surveying services throughout Western Maryland for over 30 years.

Major water and wastewater projects for which he was in responsible charge include The Upper Youghiogheny Wastewater Facilities Plan, the Mountain Lake Park sewer system, the John and Mary pump station, the Browning water line, the Little Youghiogheny River sewer crossing, the Little Yough Plaza sewer line, the Oakland sewer system, the Bradley Run sewer line, the Crellin-Hutton sewer system, the Deep Creek Lake pressure sewer system capacity study, the Gorman sewer system, the Midlothian water system treatment plant, and the New Germany State Park water system.

RELEVANT WATER AND WASTEWATER PROJECTS

UPPER YOUGHIOGHENY REGIONAL FACILITIES PLAN – Garrett County, Maryland. Responsible for the evaluation and future planning of water and sewer systems throughout the upper Youghiogheny Basin. The plan assisted in prioritizing upgrades for various wastewater systems serving six rural communities. This work was performed for the Garrett County Sanitary Commission.

MOUNTAIN LAKE PARK SEWER SYSTEM – Mtn. Lake Park, Maryland. Engineer In Charge for this project, which includes the Sewer System Evaluation Survey (SSES), and the design, permitting, and construction management of sewer line rehabilitation projects. Sewer line upgrades included the reconstruction of the D Street interceptor sewer. Responsibilities also included the management of grants for the owner, the Town of Mt. Lake.

JOHN AND MARY PUMP STATION – Mtn. Lake Park, Maryland. Engineer in charge for this project, which includes a gravity sewer from Dennett Road Manor Nursing Home to the pump station site and a pressure line to the receiving manhole in Mountain Lake Park. Work was performed for the Town of Mountain Lake Park.

BROWNING WATER LINE – Garrett County, Maryland. Engineer in Charge, for this project, which includes an eight inch water line and appurtenances from Dennett Road to Mid-town Plaza shopping center. The work was performed for Browning, Inc.

LITTLE YOUGH RIVER SEWER CROSSING – Garrett County, Maryland. Engineer in charge for this project, which includes a gravity sewer stream crossing. The work was performed for the Garrett County Sanitary District, Inc.

LITTLE YOUGH PLAZA SEWER LINE – Mtn. Lake Park, Maryland. Engineer in charge for this project, which includes --- feet of gravity sewer line, --- manholes, and a stream crossing.

BRADLEY RUN SEWER LINE – Oakland, Maryland. Engineer in charge for this project, which includes a railroad crossing, ---manholes and ---feet of gravity sewer line, and analysis of flow characteristics from water plant filter backwash.

OAKLAND SEWER SYSTEM – Oakland, Maryland. Engineer In Charge for this project, which included the Sewer System Evaluation Survey (SSES), and the design, permitting, and construction management of sewer line rehabilitation projects. Sewer line upgrades included the reconstruction of over 40,000 feet of gravity sewer to the Oakland Wastewater Treatment Plant. Responsibilities also included 0.75 mgd pump station design.

OAKLAND WASTEWATER TREATMENT PLANT – Oakland, Maryland. Engineer In Charge for this project, which included the design permitting, and construction of an aerated lagoon system which included an innovative and alternative nitrification system used for effluent treatment of discharge into the Class III trout waters of the Youghiogheny River. The plant design evolved from the facilities plan work, which was performed in partnership with Franklin Associates, and for the owners, the Town of Oakland.

CRELLIN WASTEWATER TREATMENT PLANT – Crellin, Maryland. Engineer In Charge for this project, which included the design permitting, and construction of re-circulating sand filter sewage treatment plant. The collector system is a variable grade small diameter sewer. The project serves over ----homes. Later the plan was revised to include homes in the Hutton, Maryland and along Maryland Route 39. Also required for this project was the amendment to the regional facilities plan for using the re-circulation system. This work was performed for the owners, the Garrett County Sanitary Commission.

DEEP CREEK LAKE PRESSURE SEWER CAPACITY STUDY – Garrett County, Maryland. Engineer in charge for this project, which includes an evaluation of the hydraulic capacity of the existing transport piping, and includes recommendations for improvements.

GORMAN SEWAGE SYSTEM – Gorman, Maryland. Engineer In Charge for this project, which included development of the Facilities Plan, and the design permitting, and construction of the sewage collection system and re-circulating sand filter wastewater treatment plant. The sewage collection system included the construction of interceptor sewers, pump stations and force mains for conveyance to the wastewater treatment plant. Permitting issues included the determination of allowable effluent requirements for the NPDES Discharge Permit. This work was performed for the owners, the Garrett County Sanitary Commission.

NEW GERMANY STATE PARK WATER SYSTEM – Grantsville, Maryland. Engineer In Charge for this project, which included the design permitting, and construction of the water supply, treatment and distribution system for all camp sites, bath houses and park facilities within the State Park. This work was performed for the Maryland Department of Natural resources through the Maryland Department of General Services.

MIDLOTHIAN WATER COMPANY TREATMENT PLANT- Midlothian, Allegany County, Maryland. Engineer in charge for this project, which includes design and pump testing of new supply wells, design of treatment system, and observation of construction. This work was performed for the Midlothian Water Company.

AARON J. TEETS, P.E., Prof.L.S.

EDUCATION

BSIE 1999 West Virginia University

PROFESSIONAL REGISTRATIONS

2005 Maryland, Professional Engineer # 31200
2009 Maryland, Prof. Land Surveyor #21434

WORK EXPERIENCE

2001 – Present **Project Engineer**
Century Engineering, Inc.

2000 – 2001 **Design Engineer**
Christopher Consultants, Inc.

1999 – 2000 **Project Representative**
Thrasher Engineering, Inc.

1998 – 1999 **Systems Analyst**
MYLAN Pharmaceuticals

Mr. Teets has 10 years of experience in design and construction of land development related projects. His duties include developing subdivision layout computations, the presentation of development plans, the design and approval of site construction drawings including grading, water, sewer, storm drainage, and stormwater management, and the monitoring of daily construction activities for land development projects.

RELEVANT PROJECTS:

TRADERS LANDING, Deep Creek Lake, Maryland. Project Engineer for 20 vacation homes prepared for Sprenger and Lang Residential Properties, LLC. The project included the site design for roads, drainage, stormwater management, water, sewer and on-site utilities. Permitting included, sediment & erosion control, and stormwater management.

SILVER TREE LANDING, Deep Creek Lake, Maryland. One of two Project Engineers for a 14-lot vacation home project prepared for the DCL Properties, LLC. The project included the site design for roads, drainage, stormwater management, water, sewer and on-site utilities. Permitting included the acquisition of water appropriation, sediment & erosion control, and stormwater management. Also provided full construction management services for assistance in bidding through final inspection.

SILVER RIDGE, Deep Creek Lake, Maryland. One of two Project Engineers for a 40-lot vacation home project prepared for the DCL Properties, LLC. The project included the site design for roads, drainage, stormwater management, water, sewer and on-site utilities. Permitting included the acquisition of water appropriation, sediment & erosion control, and stormwater management. Also provided full construction management services for assistance in bidding through final inspection.

BRIARWOOD ESTATES, McHenry, Maryland. Project Engineer for a 33-lot housing project prepared for Stony Brook Development, LLC. The project included the site design for roads, drainage, stormwater management, and on-site utilities. Design also included the coordination with the local health department for the siting of approved percolation sites and a community water system. Permitting included sediment & erosion control, entrances to county roads and stormwater management.

ROAM AROUND CAMPGROUND, Finzel, Maryland. Project Engineer for a 350 acre campground project prepared for Robert & Edna McKenzie. The project encompassed the design for a water system and a sewer system with a private wastewater treatment plant. Permitting included sediment & erosion control and stormwater management as well as extensive permit work with Maryland Department of the Environment for construction of an independently owned and operated wastewater treatment plant.

AQUA MOUNTAIN RESORT, McHenry, Maryland. Project Engineer for a site development project for the construction of an indoor water park/hotel with separate cabin units. The work included extensive grading, infrastructure and utility development, and state highway improvements.

GARRETT RUBBLE CELL, Oakland, Maryland. Project Engineer for a landfill capping project. The existing rubble cell at the Garrett County Landfill needed an impervious cap to complete its closure. Century designed, permitted, and performed construction management for the installation of an impermeable cap and drainage system.

WCI RUBBLE CELL, Cumberland, Maryland. Project Engineer for a landfill capping project. The existing rubble cell at the Western Correctional Institution needed an impervious cap to complete its closure. Century designed, permitted, and performed construction management for the installation of a synthetic liner and drainage system and a passive methane gas venting system.

BONNIE S. CARR

EDUCATION

BS 2003 Mechanical Engineering
A. J. Clark School of Engineering, University of Maryland (UMD), College Park

AA 2000 Secondary Education
Garrett Community College (GCC)

PROFESSIONAL REGISTRATIONS

SURVEYOR

2006 Land Surveyor in Training, MD #21309

ENGINEER

2005 Engineer in Training, MD #32461

WORK EXPERIENCE

Mrs. Carr is a Project Manager with Century's Oakland, MD office.

She is experienced in water, sewer, and other utility design. She works with the local permitting organizations to obtain approvals for private utility projects. She performs design calculations for utility operation and design points. She works with state level reviewers to obtain relevant permits for water and sewer construction.

She also has experience with title research and survey techniques. She works with the survey crews to acquire information about current property lines and right of ways. She assists with survey computations and plat drafting. She is familiar with current surveying laws and procedures.

RELEVANT PROJECTS

RIDGEVIEW VALLEY PLANNED RESIDENTIAL COMMUNITY: Project Manager for this project, which included the design, permitting, and construction of approximately 7 miles of water, sewer, and utility piping. The sewer is a combination of gravity collectors, small pump stations, and pressure mains that tie into the existing treatment system for Deep Creek Lake. The water is a combination of pressure and gravity feed with delicate pressure zones operating over 300 ft of vertical elevation changes. This work was performed for the Ridgeview Valley, LLC.

SWEET REWARDS FARM SUBDIVISION: Mechanical Engineer for this project, which included the design, permitting, and construction of approximately 3 miles of water, sewer, and utility piping. The sewer is a combination of gravity collectors, 11,000 gal per day pump station, and pressure mains that tie into the existing treatment system for Deep Creek Lake. The pump station was designed to use portable standby power for operation during extended power outages. The water is a combination of pressure and gravity feed. This work was performed for the Pamela J. Adams, LLC.

GILBANE DEVELOPMENT PROJECT FOR THE NEW DORM AT GARRETT COLLEGE: Mechanical Engineer for this project, which included the design, permitting, and construction of water, sewer, and utility piping. The sewer is a pump station and pressure mains that tie into the existing treatment system for Deep Creek Lake. The pump station was designed with permanent standby power for operation during extended power outages. The water is a 10" service line from the existing McHenry Water System to the new Dorm site. This work was performed for the Gilbane Development, LLC.

WOODCROFT SUBDIVISION: Mechanical Engineer for this project, which included the design, permitting, and construction of water and sewer piping. The sewer is a combination of gravity collectors, 2 small pump stations, and pressure mains that tie into the existing treatment system for Deep Creek Lake. The water is supplied by gravity feed. This work was performed for George Pettie.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE **Attachment "B"**

PROJECT NAME	Date (DAY, MONTH, YEAR)	FEIN
DEP15235, Shinnston	12/3/2010	52-2002914

1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME
Century Engineering, Inc.	10 N Third Street, Oakland, MD 21550	

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
(301) 334-2305	2000	Individual Corporation Partnership Joint-Venture	Yes No

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO AML DESIGN PERSONNEL EACH OFFICE
Century Engineering, Inc./ 10 N Third Street, Oakland, MD 21550/ (301) 334-2305/ Morgan C. France/ 3

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE - OTHER PRINCIPALS
Morgan C. France, L.S., P.E., and Vice President	

9. PERSONNEL BY DISCIPLINE

__ ADMINISTRATIVE	__ ECOLOGISTS	__ LANDSCAPE ARCHITECTS	__ STRUCTURAL ENGINEERS
__ ARCHITECTS	__ ECONOMISTS	1 MECHANICAL ENGINEERS	2 **SURVEYORS**
__ **BIOLOGIST**	__ ELECTRICAL ENGINEERS	__ **MINING ENGINEERS**	__ TRAFFIC ENGINEERS
1 **CADD OPERATORS**	__ ENVIRONMENTALISTS	__ PHOTOGRAMMETRISTS	__ OTHER
__ CHEMICAL ENGINEERS	__ ESTIMATORS	__ PLANNERS: URBAN/REGIONAL	
2 **CIVIL ENGINEERS**	__ **GEOLOGISTS**	__ SANITARY ENGINEERS	
_ CONSTRUCTION INSPECTORS	__ HISTORIANS	__ SOILS ENGINEERS	
_ DESIGNERS	__ HYDROLOGISTS	__ SPECIFICATION WRITERS	6 TOTAL PERSONNEL
__ DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 1

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

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ___YES ___NO **N/A**

11. OUTSIDE KEY CONSULTANTS / SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification questionnaire".		
NAME AND ADDRESS: Triad Engineering 219 Hartman Run Road Morgantown, WV 26505	SPECIALTY: Geotechnical Engineering, Construction Monitoring, Testing, and Inspections	WORKED WITH BEFORE _X_ Yes __ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
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NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE

12.	**A.**	Is your firm experienced in Abandoned Mine Lands Remediation / Mine Reclamation Engineering? Century Engineering has extensive esterience in site development, grading, stormwater management, hydrology, hydraulics, and water system design. Century prepares design documents, plans, specifications, and provide construction management services. However, we do not have any experience related directly to abandoned mine land remediation or reclamation work.
	B.	Is your firm experienced in Soil Analysis? In designing AML reclamation projects, generally three types of soil analysis are needed. These analyses include geotechnical, revegetation potential, and hazardous materials. Century Engineering is involved in selecting and collecting the soil samples and analyzing the results of Laboratory testing as required by design. Some laboratory testing is performed by a subcontractor.
	C.	Is your firm experienced in hydrology and hydraulics? Century Engineering's civil engineers and designers has experience in hydrology and hydraulic calculations. They also have experience using TR20, TR55, Haestad's Flowmaster and Pond Pack, and HEC-HMS and HEC-RAS. Century provides services for stormwater management, sediment and erosion control, culvert analysis, storm sewer planning, floodplain analysis and determination, channel design, and drainage area calculations. Century believes hydrology and hydraulics are essential to any kind of grading or site design.
	D.	Does you firm produce its own Aerial Photography and Develop Contour Mapping? Century Engineering works with a subcontractor to produce aerial photography. We contact the aerial mapping company and give them the specifications for the mapping. We provide all the survey control and perform the checks needed by the photogrametry company. We field verify the photos and contour mapping for accuracy. Century Engineering also has several survey crews to develop contour mapping. We field run our control and perform all necessary locations. We then use software programs to interpolate the elevation data and produce the contour mapping. We then perform spot checks to determine the accuracy.

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

Century Engineering has extensive experience in domestic waterline design. We have designed several water systems including the pipe layout, flows analysis, head requirements, quality controls, quantity determinations, well development, determinations of well recharge rates, draw down test monitoring, and safe yield calculations. We prepare plans and specifications, assist in bidding and negotiations, perform construction management, and prepare as-built drawings for field locations and contractor marked up drawings.

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

Century Engineering has extensive experience in stormwater management, hydraulics, hydrology calculations, and drainage issues. However, we do not have any experience in dealing with acid mine drainage.

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

NAME AND TITLE	YEARS OF EXPERIENCE		
	YEARS OF AML EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Morgan C. France, L.S., P.E. Vice President	0	36	34

Brief Explanation of Responsibilities

Mr. France has provided engineering and surveying services throughout Western Maryland for over 36 years. He is a Certified Floodplain Manager in West Virginia.

Major surveys include the Route 219 highway bridge at Deep Creek Lake, the State of Maryland-Fresh-Bittinger dispute, the Wellborn-Frantz dispute, the route survey for the Glendale Bridge replacement, precise leveling for the Pennsylvania Electric Company and FEMA through Allegany County, Maryland, the survey of the Deep Creek Lake property line, all of the buy down parcels (over 2000), two annexations to Mountain Lake Park, and three annexations to Oakland, property line surveys for Elkwater Fork water supply and recreation project for Tygarts Valley Conservation District Office.

Major subdivisions include Monte Vista, Lakeshore Estates, Woodridge Park, Broadford Heights, Del Acres, JRS, Lake Forest Estates, Hickory Ridge, Winter Place, Valley View, Wayne Kramer, Silver Tree Landing, and Silver Ridge.

Major site development designs include the New Germany State Park Road realignment and retaining wall system, Food Lion stores in Oakland and Frostburg, shower building at Swallow Falls State Park, Shoreline Joint Venture, Rawlings Golf Course, Yough Glades Elementary School, Arby's, Sterling Poultry Processing Plant demolition, Center Street School, Thayerville Center Theater, BFS Burger King and BP gas station, Dr. Miller medical offices, Dr Tuel medical office, the Regional Eye Center for Dr. Powell, Oakland Taco Bell, Cluss Lumber, Southern Garrett Industrial Park, and the Garrett Rehabilitation Center.

EDUCATION (DEGREE, YEAR, SPECIALIZATION)

BS, 1964, California State College, Physics and Math Education
MS, 1968, University of Pennsylvania, Physics Education
Additional Engineering Courses,1982, West Virginia University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (TYPE, YEAR, STATE)	
	Surveyor	Engineer
	1976 Pennsylvania #024925E	1984 Maryland #14378
	1976 West Virginia #575	1994 West Virginia #12499
	1978 Maryland #126	

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

NAME AND TITLE	YEARS OF EXPERIENCE		
	YEARS OF AML EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Aaron J. Teets, P.E., Prof.L.S. Civil Engineer	0	10	10

Brief Explanation of Responsibilities

Mr. Teets has experience in design and construction of land development related projects. His duties include developing subdivision layout computations, the presentation of development plans, the design and approval of site construction drawings including grading, water, sewer, storm drainage, and stormwater management, and the monitoring of daily construction activities for land development projects.

SILVER TREE LANDING, Deep Creek Lake, Maryland. One of two Project Engineers for a 14-lot vacation home project prepared for the DCL Properties, LLC. The project included the site design for roads, drainage, stormwater management, water, sewer and on-site utilities. Permitting included the acquisition of water appropriation, sediment & erosion control, and stormwater management. Also provided full construction management services for assistance in bidding through final inspection.

SILVER RIDGE, Deep Creek Lake, Maryland. One of two Project Engineers for a 40-lot vacation home project prepared for the DCL Properties, LLC. The project included the site design for roads, drainage, stormwater management, water, sewer and on-site utilities. Permitting included the acquisition of water appropriation, sediment & erosion control, and stormwater management. Also provided full construction management services for assistance in bidding through final inspection.

EDUCATION (DEGREE, YEAR, SCHOOL, SPECIALIZATION)

BS, 1999, West Virginia University, Industrial Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (TYPE, YEAR, STATE)	
	Surveyor	Engineer
	2009 Maryland #21434	2005 Maryland #31200

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

NAME AND TITLE	YEARS OF EXPERIENCE		
	YEARS OF AML EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Bonnie S. Carr Mechanical Engineer	0	4	4

Brief Explanation of Responsibilities

Mrs. Carr is a Project Manager with Century's Oakland, MD office.

Mrs. Carr is experienced in water, sewer, and other utility design. She works with the local and state permitting organizations to obtain approvals for private utility projects. She performs design calculations for utility operation and design points. She works with state level reviewers to obtain relevant permits for water and sewer construction.

Mrs. Carr also has experience with title research and survey techniques. She works with the survey crews to acquire information about current property lines and right of ways. She assists with survey computations and plat drafting. She is familiar with current surveying laws and procedures.

RIDGEVIEW VALLEY PLANNED RESIDENTIAL COMMUNITY: Project Manager for this project, which included the design, permitting, and construction of approximately 7 miles of water, sewer, and utility piping. The sewer is a combination of gravity collectors, small pump stations, and pressure mains that tie into the existing treatment system for Deep Creek Lake. The water is a combination of pressure and gravity feed with delicate pressure zones operating over 300 ft of vertical elevation changes. This work was performed for the Ridgeview Valley, LLC.

EDUCATION (DEGREE, YEAR, SCHOOL, SPECIALIZATION)

AA, 2000, Garrett Community College, Math and Physics Education

BS, 2003, A. J. Clark School of Engineering University of Maryland, Mechanical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (TYPE, YEAR, STATE)
	Surveyor - In - Training 2006 Maryland #21309
	Engineer - In - Training 2005 Maryland #32461
	ACI Concrete Field Testing Technician - Grade 1 #01121921

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

NAME AND TITLE	YEARS OF EXPERIENCE		
	YEARS OF AML EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Robert Sisler Surveyor	0	10	10

Brief Explanation of Responsibilities

Mr. Sisler is a surveyor with extensive experience in site development. Skilled in several areas of surveying including record research, reconnaissance, traverse layout, leveling, stake-outs, computations, AutoCAD drafting, description writing, and report preparation. Mr. Sisler specializes in the use of GPS (static and RTK) for large-scale surveys on known datums. Prior to working for Century Engineering, Mr. Sisler had worked in the field of water quality monitoring for mining operations.

RIDGEVIEW VALLEY- 2004-Present, 300+ acre project, perimeter and subdivision traverse, record work, road and utility layout, supervision of field crews.

MITCHELL POWER PLANT - Party chief and instrument operator for a hydrographic survey of the river bottom near

the Mitchell Power Plant. Surface models were created to determine material to be removed and survey performed to verify the volume of material.

GARRETT RUBBLE CELL - Party chief for topographic survey, construction layout, and as-built survey for rubble cell upgrades made to the rubble cells at the Garrett County Landfill and the Western Correctional Institution

EDUCATION (DEGREE, YEAR, SCHOOL, SPECIALIZATION)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (TYPE, YEAR, STATE)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials.)			
NAME AND TITLE	YEARS OF EXPERIENCE		
	YEARS OF AML EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Carl Schmidle Senior Surveyor	0	22	22

Brief Explanation of Responsibilities

Mr. Schmidle senior surveyor with extensive experience in site development. Skilled in several areas of surveying including record research, reconnaissance, traverse layout, leveling, stake-outs, computations, AutoCAD drafting, description writing, and report preparation.

WEST VIRGINIA DOH- 2004, Wilson to Corona Bridge, property line surveys for taking, help with row plats, and set corners.

RIDGEVIEW VALLEY- 2004-Present, 300+ acre project, perimeter and subdivision traverse, record work, road and utility layout, supervision of field crews.

SEAN P. LEWIS TRACT- 2004-2007, 130 acre resurvey of old and poorly done survey with over sixty lots. Work included deed description research, field research, traverse work, supervision of field crews.

ELKWATER IMPOUNDMENT-Property line survey, record research, deal with adjoiners and other surveyors, supervise

field crews, coordinate mapping, and prepare descriptions.

EDUCATION (DEGREE, YEAR, SCHOOL, SPECIALIZATION)

1-8 Albright Elementary
9-12 Central Preston High School

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (TYPE, YEAR, STATE)

14. Provide a list of software and equipment available in the Primary Office which will be used to complete AML Design Services.

- ▶ 6 Nikon total stations (survey instruments)
- ▶ Topcon GR-3 (GPS Base or Rover)
- ▶ 2 Top Con Hiper+Pro Rover (GPS-RTK Rover)
- ▶ Top Con Hiper+ Lite Rover and Base
- ▶ Mirrors and manhole openers/safety equipment
- ▶ Recording flow meter (ISCO Model 3230)
- ▶ Various inflatable plugs and V-notch weirs
- ▶ 4 automatic levels (survey instruments)
- ▶ Digital electronic level (survey instrument)
- ▶ Hand-held radios and cell phones
- ▶ Central data storage system that can be used to calculate and manipulate data
- ▶ Eagle Point, Carlson, Pro-Cogo, Haestad, and AutoCAD software
- ▶ Concrete Testing- Air entrainment pot, slump cone, cylinder castings, and cylinder breaking equipment
- ▶ Compaction Testing – grain size, moisture content, field density measurements, nuclear gauges, standard and modified proctor tests

15. Current Activities on which your firm is the designated engineer of record.

Project Name, Type, and Location	Name and Address of Owner	Nature of your Firm's Responsibility	Estimated Construction Cost	Percent Complete
Ridgeview Valley PRD Subdivision Deep Creek Lake, MD	Ridgeview Valley, LLC P.O. Box 417 McHenry, MD 21550	Design of roads, stormwater management, utilities, stakeout, and construction management	10 Million	20%
Accident Plaza Commercial Site Development Accident, MD	Norio Properties 8100 Hartford Road Baltimore, MD 21234	Design of roads, stormwater management, and utilities	4 Million	10%
Grantsville Water Extension Grantsville, MD	Town of Grantsville P.O. Box 296 Grantsville, MD 21536	Design of two 12" waterlines to expand water service	1 Million	10%
Aqua Mountain Commercial Site Development Deep Creek Lake, MD	McHenry Cove, LLC 612 Stockslager Road Oakland, MD 21550	Design of roads, stormwater management, utilities, stakeout, and permit applications	70 Million	10%

16. Current Activities on which your firm is serving as a sub-consultant to others

Project Name, Type, and Location	Nature of Firms Responsibility	Name and Address of Owner	Estimated Completion Date	Estimated Construction Costs	
				Entire Project	Our Responsibilities

17. Completed Work within last 5 years on which your firm was the designated engineer of record.

Project Name, Type, and Location	Name and Address of Owner	Estimated Construction Costs	Year	Constructed (Yes or No)
Garrett College Dorm Site Design for New Dorm McHenry, MD 21541	Garrett College 687 Mosser Road McHenry, MD 21541	$7.25 Million	2007	Yes
New Germany Dam Dam Rehabilitation Grantsville, MD 21536	State of Maryland -DGS 301 West Preston Street Baltimore, MD 21201	$230,000	2008	Yes
Learning Research Cente New Library at Garrett Col McHenry, MD 21541	Garrett College 687 Mosser Road McHenry, MD 21541	$3.5 Million	2007	Yes
Stonecroft Residential Condominium McHenry, MD 21541	George Pettie P.O. Box 100335 Arlington, VA 22210	$650,000	2006	Yes
Deercrest Residential Subdivision McHenry, MD 21541	Raily Realty 2 Vacation Way McHenry, MD 21541	$265,000	2005	Yes
Western Correctional Inst. Rubble Cell Cap Cumberland, MD	Dept. Public Safety 6776 Reisterstown Road Baltimore, MD 21215	$917,000	In Process	In Process
Garrett Landfill Rubble Cell Cap Oakland, MD 21550	Garrett Co. Commissioners 313 East Alder St Oakland, MD 21550	$250,000	2010	Yes

18. Completed Work within last 5 years on which your firm was the designated engineer of record.

Project Name, Type, and Location	Name and Address of Owner	Estimated Construction Cost of Your Firm's Portion	Year	Constructed (Yes or No)	Firm Associated With
Garrett County Airport Quality Assurance and Quality Control Testing McHenry, MD 21541	Garrett County Commissioners 103 East Alder Street, Room 105 Oakland, MD 21550	$60,000	2006	Yes	URS

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

20. The forgoing is a statement of facts

Signature: Morgan C. France Title: Vice President Date: 3 Dec 2010

Printed Name: Morgan C. France

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Nitigation/ Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Morgan C. France	Aaron J. Teets	Bonnie S. Carr			
Ridgeview Valley, PRD	C,P					x					x		x			x		M,P	P	P			
Roam Around Campground	C,P					x					x	x	x	x				M,P	P				
Mount Storm Wind Farm	C,P										x		x					M,P					
Garrett County Landfill	C,P					x					x	x	x					M,P	P	P			
Deep Creek Lake Survey	C,P																	M,P					
Third St. Bridge Replacement	C,P										x		x					M,P	P				
Garrett College Dorm	C,P					x					x		x				x	M,P	M,P	P			
New Germany Dam	C,P					x					x		x		x		x	M,P	M,P				
Learning Research Center	C,P					x					x		x				x	M,P	P	P			
Stonecroft	C,P					x					x		x					M,P	P				
Deercroft	C,P					x					x		x					M,P	P				
Silver Ridge	C,P					x					x		x	x				M,P	M,P	P			
WCI Landfill	C,P					x					x	x	x					M,P	M,P	P			

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

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

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

Attachment "C"