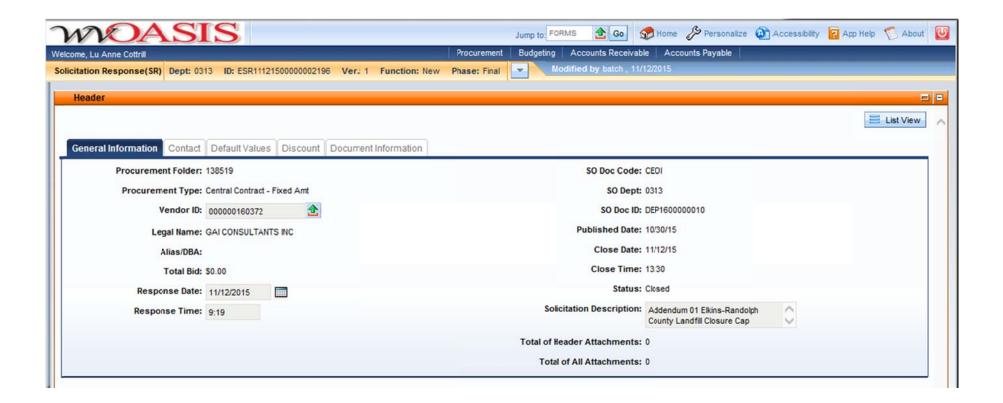


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026 Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





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

State of West Virginia Solicitation Response

Proc Folder: 138519

Solicitation Description: Addendum 01 Elkins-Randolph County Landfill Closure Cap

Proc Type: Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation No	Version
	2015-11-12 13:30:00	SR 0313 ESR11121500000002196	1

VENDOR

000000160372

GAI CONSULTANTS INC

FOR INFORMATION CONTACT THE BUYER

Beth Collins (304) 558-2157 beth.a.collins@wv.gov

Signature X FEIN # DATE

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

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Water testing services				\$0.00

Comm Code	Manufacturer	Specification	Model #	
81100000				

Extended Description:

Site Characterization Study, Leachate Management and Closure Cap Design for the Elkins-Randolph County Landfill per the attached specifications, bid requirements, and terms and conditions, incorporated here by reference and made a part hereof.

Expression of Interest

Engineering Services Required for the Elkins-Randolph County Landfill Randolph County, West Virginia

GAI Project Number: E151522.00

November 12, 2015





November 12, 2015 Project E15122.00

Department of Administration Purchasing Division 2019 Washington Street, East Charleston, West Virginia 25305

Expression of Interest
Engineering Services Required for the
Elkins - Randolph County Landfill
Randolph County, West Virginia

Gentlemen:

GAI Consultants, Inc. (GAI) welcomes the opportunity to submit our qualifications in response to your Request for Expression of Interest to provide professional engineering services. These services will result in the development of a site characterization study, leachate management plan and closure cap design, required for closure of the Elkins-Randolph County Landfill in Randolph County, West Virginia.

GAI is exceptionally well qualified to provide the State with the above referenced services offered at the most favorable terms from both a technical and value standpoint. The work under this contract will be performed in our Charleston, West Virginia office with support from our Bridgeport, West Virginia office. The Charleston office has provided the State with quality engineering services for the landfill closure program since 1993. We have served the State on previous West Virginia Department of Environmental Protection – Landfill Closure Assistance Program (WVDEP-LCAP) open-end contracts. As a result of this long-term experience, GAI can provide the required expertise, continuity and conformance to program guidelines established by the WVDEP-LCAP.

GAI welcomes you to visit our facilities and meet our staff located at 300 Summers Street, Suite 1100, Charleston, West Virginia 25301 and 600 Market Place Avenue, Suite 301, Bridgeport, West Virginia 26330.

GAI has:

- on staff in Charleston are three and in Bridgeport is one West Virginia registered civil engineers who will review, stamp, and sign all work and contract documents.
- large diverse staff of civil engineers, CADD operators, surveyors, geologists, estimators, designers, and biologists with extensive experience in landfill engineering, hydrology, and geology;
- extensive experience in landfills, environmental remediation, ecological principles, and contract administration.

In summary, GAI will provide the most favorable terms as a result of:

- Exceptional qualifications (22 years of in-state LCAP experience)
- Local, Charleston and Bridgeport presence with excellent access to LCAP offices and the Elkins-Randolph County Landfill, and
- Efficient and experienced personnel who are familiar with WVDEP-LCAP requirements and staff. We look forward to continuing our relationship with WVDEP-LCAP.

Sincerely,

GAI Consultants, Inc.

Charles F. Straley, P.E. Engineering Manager

KWK:CFS/Imt

Enclosure



Expression of Interest

Engineering Services Required for the Elkins-Randolph County Landfill Randolph County, West Virginia

GAI Project Number: E151522.00

November 12, 2015

Issuing Office:

West Virginia Department of Environmental Protection Landfill Closure Assistance Program 601 57th Street, S.E. Charleston, West Virginia 25304

Submitted By:

GAI Consultants, Inc. 300 Summers Street, Suite 1100 Charleston, West Virginia 25301

Author:

Charles F. Straley, P.E., P.S. Engineering Manager





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REQUEST FOR QUOTATION

AFFIDAVIT

SECTION 1

CONSULTANT QUALIFICATION QUESTIONNAIRE

• GAI Consultants

SECTION 2

BRIEF FIRM HISTORY AND EXPERIENCE

- INTRODUCTION
- BIDDER EXPERIENCE
 - o Surveying and Mapping
 - Subsurface Investigation
 - o Laboratory Services
 - o Site Characterization, Design Engineering and Contract Document Preparation
- QUALIFICATIONS OF PERSONNEL
- CORPORATE SPECIALIZED EXPERIENCE AND DEMONSTRATED ABILITIES
- MANAGEMENT PLAN & LOCATION OF FACILITIES
 - o Management Plan
 - Project Budget Control
 - o Schedule Control
 - Location of Facilities
- FIGURE 1 PROJECT MANAGEMENT PLAN



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

State of West Virginia Centralized Expression of Interest

02 - Architect/Engr

Proc Folder: 138519

Doc Description: EOI: Elkins-Randolph County Landfill Closure Cap Design

Proc Type: Central Contract - Fixed Amt

 Date Issued
 Solicitation Closes
 Solicitation No
 Version

 2015-09-17
 2015-11-05 13:30:00
 CEOI
 0313 DEP1600000010
 1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

GAI Consultants, Inc. 300 Summers Street Suite 1100 Charleston, WV 25301

(304) 926-8100

FOR INFORMATION CONTACT THE BUYER

Beth Collins (304) 558-2157 beth.a.collins@wv.gov

Signature X

FEIN# 25-1260999

DATE Nov. 12, 2015

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

Page: 1

FORM ID: WV-PRC-CEOI-001

ADDITIONAL INFORMATION:

The West Virginia Purchasing Division, for the Agency, the West Virginia Department of Environmental Protection, is soliciting Expressions of Interest for professional mapping and design services for the Elkins-Randolph County Landfill project located in Randolph County, West Virginia, per the attached bid requirements and specifications.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROT		ENVIRONMENTAL PROTE 601 57TH ST	CTION
601 57TH ST SE			
CHARLESTON	WV25304	CHARLESTON	WV 25304
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	
1	Water testing services			

Comm Code	Manufacturer	Specification	Model #	
81100000				

Extended Description:

Site Characterization Study, Leachate Management and Closure Cap Design for the Elkins-Randolph County Landfill per the attached specifications, bid requirements, and terms and conditions, incorporated here by reference and made a part hereof.

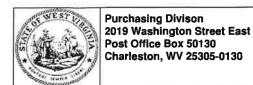
SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	Event Date
1	Tech Questions Deadline at 5:00 PM, EST	2015-10-09

	Document Phase	Document Description	Page 3
DEP1600000010	Final	EOI: Elkins-Randolph County L andfill	of 3
		Closure Cap Design	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



State of West Virginia **Centralized Expression of Interest**

02 - Architect/Engr

Proc Folder: 138519

Doc Description: Addendum 01 Elkins-Randolph County Landfill Closure Cap

Proc Type: Central Contract - Fixed Amt

Version **Solicitation Closes** Solicitation No **Date Issued** 0313 DEP1600000010 2015-10-30 2015-11-12 CEOI 13:30:00

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON

25305 WV

US

VENDOR

Vendor Name, Address and Telephone Number:

GAI Consultants, Inc. 300 Summers Street Suite 1100 Charleston, WV 25301 (304) 926-8100

FOR INFORMATION CONTACT THE BUYER

Beth Collins (304) 558-2157

beth.a.collins@wv.gov

Signature X

FEIN#

25-1260999

DATE Nov. 12, 2015

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

Page: 1

FORM ID: WV-PRC-CEOI-001

ADDITIONAL INFORMATION:

Engineering and Design Addendum No. 01:

This addendum is issued to modify the solicitation per the attached documentation and the following:

1. To modify the bid opening date to November 12, 2015 at 1:30PM, EST.

2. To provide answers to vendor submitted questions.

No other changes.

The West Virginia Purchasing Division, for the Agency, the West Virginia Department of Environmental Protection, is soliciting Expressions of Interest for professional mapping and design services for the Elkins-Randolph County Landfill project located in Randolph County, West Virginia, per the attached bid requirements and specifications.

INVOICE TO	· · · · · · · · · · · · · · · · · · ·	SHIP TO	
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CHARLESTON	WV25304	CHARLESTON	WV 25304
US		us	

Line	Comm Ln Desc	Qty	Unit Issue	
1	Water testing services			

Comm Code	Manufacturer	Specification	Model #	
81100000				

Extended Description:

Site Characterization Study, Leachate Management and Closure Cap Design for the Elkins-Randolph County Landfill per the attached specifications, bid requirements, and terms and conditions, incorporated here by reference and made a part hereof.

SCHEDULE OF EVENTS

<u>Line</u>	Event	Event Date
1	Tech Questions Deadline at 5:00 PM, EST	2015-10-09
1	Tech Questions Deadline at 5:00 PM, EST	2015-10-09

	Document Phase	Document Description	Page 3
DEP1600000010	Final	Addendum 01 Elkins-Randolph Co unty	of 3
		Landfill Closure Cap	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

GAI Consultants, Inc.

(Company)

Charles F. Straley, P.E., P.S., Engineering Manager

(Authorized Signature) (Representative Name, Title)

(304) 926-8100, (304) 926-8180, Nov. 12, 2015

(Phone Number) (Fax Number) (Date)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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

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

	umbers Received: x next to each addend	um received)	
X	Addendum No. 1		Addendum No. 6
	Addendum No. 2		Addendum No. 7
	Addendum No. 3		Addendum No. 8
	Addendum No. 4		Addendum No. 9
	Addendum No. 5		Addendum No. 10
I further unde discussion hel	rstand that any verbal Id between Vendor's	representation representatives	ddenda may be cause for rejection of this bid made or assumed to be made during any ora and any state personnel is not binding. Only ne specifications by an official addendum is
GAI Consul	tants, Inc.		
Company	a Stroly	7	
Authorized Si	gnature		
November	12, 2015		
Date			
NOTE: This	addandum aalmass	ladgament show	uld be submitted with the bid to expedite

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

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE: GAI Consultants, Inc. Vendor's Name: November 3, 2015 Authorized Signature: State of // . to-wit: County of day of Λ Taken, subscribed, and sworn to before me this 2023. My Commission expires **NOTARY PUBLIC** AFFIX SEAL HERE Purchasing Affidavit (Revised 07/01/2012) **OFFICIAL SEAL** Notary Public, State of West Virginia JASON T GREEN

Route 2 Box 42 Harricane, WV 25526 My commission expires April 11, 2023

PROJECT NAME Elkins-Randolph County Landfill Closure (DEP 1600000010) 1. FIRM NAME GAI Consultants, Inc. 4. HOME OFFICE TELEPHONE 304-926-8100 7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/PERSON IN CHARGE/NO. (name particular type) PERSONNEL EACH OFFICE 300 Summers Street, Suite 1100, Charleston, WV 25301 / (304) 926-8100 / Stephen Gould, QEP / 21 Charleston, 12 Bridgeport, 13 Pittsburgh 6. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Stephen Gould, QEP, Vice President/Senior Director 9. NUMBER OF PERSONNEL BY DISPLINE (Bold Lettering Indicates Minimum Design Team Members) Detailed information On Team To Be Included 140 ADMINISTRATIVE 6 ECOLOGISTS 15. FEIN 25-1260999 A. TEEIN 25-1260999 A. TYPE OWNERSHIP A. Stephen Son J. FORMER FIRM NAME A. Stepher Sander FIRM NAME A. TYPE OWNERSHIP A. Stephen Sander FIRM NAME A. TYPE OWNERSHIP B. Corporation 6. TYPE OWNERSHIP B. Co. TYPE OWNERSHIP B. A. TYPE
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26 BIOLOGIST 9 ELECTRICAL 8 MECHANICAL 15 SURVEYORS
63 CADD OPERATORS ENGINEERS ENGINEERS
2 CHEMICAL ENGINEERS 93 ENVIRONMENTALISTS 1 MINING 261 OTHER
124 CIVIL ENGINEERS
INSPECTORS 2 HISTORIANS 17 PLANNERS: 932 TOTAL
35 DESIGNERS 3 HYDROLOGISTS URBAN/REGIONAL PERSONNEL
<u>0</u> DRAFTSMEN <u>2</u> SANITARY
ENGINEERS
13 SOILS ENGINEERS 6 SPECIFICATION
WRITERS
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE:3
*RPEs other than Civil must provide supporting documentation that qualifies them to supervise and perform this type of work.
GAI can field the entire project team from its Charleston office. GAI's Charleston office can field two separate design
teams from its location. However, only one team is expected for this project. GAI has completed all of its LCAP
projects since 1993 from the Charleston office.
10. If submitted is by joint venture list participating firms & outline specific areas of responsibility (including
10. If submittal is by joint venture, list participating firms & outline specific areas of responsibility (including administrative, technical, & financial) for each firm. Each participating firm must complete a "Consultant Confidential"
Qualification Questionnaire". N/A
10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO N/A

11. OUTSIDE KEY CONSULTANTS	SUB-CONSULTANTS ANTICIPATED	O TO BE USED.
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
REIC Laboratory	Water and Soil Chemistry Testing	
225 Industrial Park Road		⊠YES NO
Beaver, WV 25813-9307		
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Enviroprobe, Inc.	Environmental Direct Push	
Woman owned D.B.E.	Sampling, and Geotechnical	⊠YES NO
630 Cross Lanes Drive	Drilling	
Nitro, WV 25143		
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
Keddal Aerial Mapping	Aerial Mapping Services	
1121 Boyce Road, Suite 1300		⊠YES NO
Pittsburgh, PA 15241		
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
		Grands Williams
		YES NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
THE PROPERTY.		, order with belond
		YES NO
		ILS INO
	1	

12. A. Is your firm experienced in (Solid Waste Landfill Closure Design)?

YES Description and Number of Projects: GAI has completed projects for nine landfills and four State Wide projects at all 29 landfills within the WVDEP-LCAP Program. GAI designed the closure for Kanawha Western, Central, Mingo, Fayette County, Berkeley County, and other landfills within the LCAP system. GAI has completed numerous projects for several commercial and industrial landfills. These projects include but are not limited to siting, environmental assessments, designs, geotechnical, hydrogeologic, water quality, ground water, quality assurance/quality control and closures.

Mr. Charles Straley has been involved in the closure design of the Kanawha Western Landfill, Mingo County Landfill, and Berkeley County Landfill under the LCAP program. In addition, he has prepared closure plans and designs for several other landfills in West Virginia and has assisted with closure plans for various CCR facilities.

Mr. Kenneth Kinder has been involved in the closure design and QA/QC for the Fleming Landfill and the Jackson County landfill within the LCAP system. Mr. Kinder assisted with hydraulic design associated with a portion of the Elkins Landfill. Mr. Kinder has also prepared closure plans and has assisted with construction monitoring and construction management for various industrial landfills, CCR facilities, and environmental remediation sites.

Mr. R. Scott Bria has been involved with several landfill closure designs, including the Fleming landfill within the LCAP system. Mr. Bria has extensive knowledge in the use of CAD software for developing grading plans and earthwork quantities. Mr. Bria also served as the primary QA/QC construction oversight for closure of the Fleming Landfill.

NO

B. Is your firm experienced in Solid Waste landfill site characterization assessment and evaluation?

YES Description and Number of Projects: GAI has completed site characterizations for the five WVDEP-LCAP landfills which we completed the closure designs. This included Berkeley County Landfill, Kanawha Western Landfill, Mingo County Landfill, Central West Virginia Refuse and Fayette County Landfill. GAI has completed site characterizations for numerous other landfills in the process of siting, expanding or developing closure plans. We have evaluated ground water, surface water and waste types at numerous sites for landfills and other projects.

Mr. Straley was involved in the site characterization for the Kanawha Western Landfill, Mingo County Landfill, and Berkeley County Landfill under the LCAP program. In addition, he was extensively involved in a multitude of site characterizations where abutment/expansions to existing landfills were being proposed including S&S Landfill and Sycamore Landfill.

NO

C. Is your firm experienced in landfill closure construction inspection?

YES Description and Number of Projects: GAI has performed construction inspection for the five WVDEP-LCAP closures as described above and for multiple commercial and industrial clients for new landfills, expansions and closure of landfills. We have personnel trained in field testing for landfill closures (e.g. soil tests, concrete tests, synthetic liners, etc.) The proposed project manager and senior engineer have combined work on over 30 solid waste facilities including 8 LCAP projects. Mr. R. Scott Bria served as the primary QA/QC construction oversight for closure of the Fleming Landfill. Mr. Terry Queen has served as primary QA/QC for Mingo, Central, Fayette County and Berkeley County Landfills.

NO

D. Is your firm experienced in Aerial Photography and the Development of Contour Mapping? **YES Description and Number of Projects**: GAI has produced or evaluated contour mapping on our WVDEP-LCAP projects discussed in the above responses. We have in-house surveying services with exceptional capabilities in development of contours and base map models. We have used our surveying services to locate facilities for many of the miscellaneous LCAP projects. We routinely run control to sites, perform property surveys and generate topographic mapping. We subcontract our aerial photography, if none is available. GAI has not only successfully and promptly performed these services for the LCAP program but has coordinated, surveyed and mapped thousands of acres for the WVDEP Abandoned Mine Land program over the past two decades including recent projects with the Vens Run Landslide, Duck Creek Landslide, and Rt. 60 (Smithers) drainage design.

NO

E. Is your firm experienced in evaluating ground water contamination, such as may be associated with landfills?

YES Description and Number of Projects: GAI has evaluated the ground water at each of the five WVDEP-LCAP landfills which we completed closure designs. GAI evaluated the ground water monitoring wells at all 29 of the WVDEP-LCAP facilities. GAI developed the ground water monitoring plan at Fleming, Big Bear, and Kingwood landfills in the WVDEP-LCAP program. Ground water quality and monitoring plans have been developed and evaluated on multiple private landfills and other projects. We are highly experienced in developing sampling and testing programs to determine contaminants of concern

Mr. Straley has been responsible for establishing and maintaining multiple ground water monitoring programs for the LCAP program. Groundwater, wells sampling, and analysis have been involved in a majority of the 50+ solid waste facilities he has been involved with. Mr. Straley established the ground water monitoring program for Big Bear and City of Kingwood landfills.

NO

F. Is your firm experienced in Landfill Closure cost estimating?

YES Description and Number of Projects: GAI has developed construction cost estimates for hundreds of projects including the five WVDEP-LCAP landfills which we complete closure designs. In addition, GAI completed the WVDEP-LCAP Update in 2000 which developed budgetary estimates for closure and post closure for all 29 of the WVDEP-LCAP Landfills.

Data (including historic unit prices) pricing trends are maintained by GAI to make sure budgets are met. The project manager and project engineers have all been responsible for projecting budgets and establishing construction estimates for landfill closure costs.

NO

13. PERSONAL HISTORY STATMENT	OF PRINCIPALS	AND A	SSOCIATES RESPO	NSIBLE FOR
NAME& TITLE (Last, first, Middle Int.)		VE	ARS OR EXPERIENC	UT:
Straley, Charles, F.	YEARS OF LAND		YEARS OF LCAP	YEARS OF QA/QC
Engineering Manager	CLOSURE DESIG		EXPERIENCE: 21	EXPERIENCE: 27
Engineering Munuger	EXPERIENCE: 27		EXTERNOE. 21	EM EMENCE. 27
Brief Explanation of Responsibilities: Mr. Straley will be responsible for day-to-c staff. His main activities will include development activities are completed on-budget project completion, providing guidance an will review the construction drawings, tech will also provide day-to-day contact with the required.	lopment of detailed and on-time; revie d direction to projonical specification	l step-by w of the ect staff, s, calcu	e-step project work pla work products on a w as well as engineering lations, estimates and	ns to ensure the eekly basis; and at g and design work. He the QA/QC plan. He
Mr. Straley will also provide expertise in the establishment. Having worked on every LG and desired format and will be instrumented be the senior engineer responsible for the subsurface exploration, foundation, and entire EDUCATION (DEGREE, YEAR, SPECIAB.S. 1986 Civil Engineering M.S. 1988 Geotechnical Engineerin	CAP project GAI had in developing the geotechnical aspect inbankment design of ALIZATION)	as perfo coverall ts of the	rmed, he is experience written assessment re project including but	ed in LCAP protocol ports. Mr. Straley will
Wi.S. 1700 Geolechnical Engineering	8			
MEMBERSHIP IN PROFESSIONAL OR	GANIZATIONS:	1992 i 1996 i	STRATION (Type, Yo Professional Engineer Professional Surveyor, 140 Hour Hazwopper	WV, OH, KY, IN
13. PERSONAL HISTORY STATMENT	OF PRINCIPAL C			
	OF PRINCIPALS	AND A	SSOCIATES RESPO	NSIBLE FOR
LANDFILL CLOSURE DESIGN		YE	ARS OF EXPEIRENC	CE
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) <i>Kinder, Kenneth W.</i>	YEARS OF LAN	YE DFILL	ARS OF EXPEIRENC	CE YEARS OF QA/QC
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager	YEARS OF LAN CLOSURE DESIG	YE DFILL GN	ARS OF EXPEIRENC	CE
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) <i>Kinder, Kenneth W.</i>	YEARS OF LAN CLOSURE DESIGNED EXPERIENCE: 1	YE DFILL GN 5	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15	YEARS OF QA/QC EXPERIENCE: 15
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager Brief Explanation of Responsibilities: Mr. Kinder will be responsible for prepara and cost estimates. He will oversee hydrol management and erosion and sediment con	YEARS OF LANGE CLOSURE DESIGNATION OF CONSTRUCTION OF CONSTRUC	YE DFILL GN 5	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15	YEARS OF QA/QC EXPERIENCE: 15
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager Brief Explanation of Responsibilities: Mr. Kinder will be responsible for prepara and cost estimates. He will oversee hydrol management and erosion and sediment con EDUCATION (Degree, Year, Specialization	YEARS OF LANGE CLOSURE DESIGNATION OF CONSTRUCTION OF CONSTRUC	YE DFILL GN 5	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15	YEARS OF QA/QC EXPERIENCE: 15
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager Brief Explanation of Responsibilities: Mr. Kinder will be responsible for prepara and cost estimates. He will oversee hydrol management and erosion and sediment con EDUCATION (Degree, Year, Specialization B.S. 2003 Civil Engineering	YEARS OF LANCLOSURE DESIGNATION OF CONSTRUCTION OF CONSTRUCTION (CONSTRUCTION)	YE DFILL GN 5 n drawi ects of t	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15	YEARS OF QA/QC EXPERIENCE: 15 ations, calculations,
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager Brief Explanation of Responsibilities: Mr. Kinder will be responsible for prepara and cost estimates. He will oversee hydrol management and erosion and sediment con EDUCATION (Degree, Year, Specialization B.S. 2003 Civil Engineering	YEARS OF LANCLOSURE DESIGNATION OF CONSTRUCTION OF CONSTRUCTION (CONSTRUCTION)	YE DFILL GN 5 n drawinects of t	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15 ngs, technical specifical he project including states.	YEARS OF QA/QC EXPERIENCE: 15 ations, calculations, formwater ear, State)
LANDFILL CLOSURE DESIGN NAME & TITLE (Last, First, Middle Int.) Kinder, Kenneth W. Assistant Engineering Manager Brief Explanation of Responsibilities: Mr. Kinder will be responsible for prepara and cost estimates. He will oversee hydrol management and erosion and sediment con EDUCATION (Degree, Year, Specialization	YEARS OF LANCLOSURE DESIGNATION OF CONSTRUCTION OF CONSTRUCTION (CONSTRUCTION)	YEDFILL GN 5 n drawin nects of t REGI 2007	ARS OF EXPEIRENCE YEARS OF LCAP EXPERIENCE: 15 ngs, technical specification in the project including states and the project including states are setting.	YEARS OF QA/QC EXPERIENCE: 15 ations, calculations, cormwater ear, State) eer WV

LANDFILL CLOSURE DESIGN NAME & TITLE (last, first, middle Int.)	YE	EARS OF EXPEIRENC	CE	
Klamut, John R. Engineering Manager	YEARS OF LANDFILL CLOSURE DESIGN EXPERIENCE: 15	YEARS OF LCAP EXPERIENCE: 0	YEARS OF QA/QC EXPERIENCE: 15	
Brief Explanation of Responsibilities: Mr. Klamut has extensive experience with laptoperation of construction drawings and to design of the landfill closure plan.				
EDUCATION (Degree, Year, Specializatio B.S. 1998 Forest Engineering M.S. 2002 Civil Engineering	n)			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer WV, VA, AZ, Certified Floodplain Manager			
13. PERSONAL HISTORY STATEMENT LANDFILL CLOSURE DESIGN	OF PRINCIPALS AND	ASSOCIATES RESPO	ONSIBLE FOR	
NAME & TITLE (last, first, middle Int.)		EARS OF EXPERIENC		
Frech, Kerry L. Civil Engineer / Hydrologist	YEARS OF LANDFILL CLOSURE DESIGN EXPERIENCE: 37	YEARS OF LCAP EXPERIENCE: 19	YEARS OF QA/QC EXPERIENCE: 30	
Mr. Frech will provide expertise in the		nydraulics, including	but not limited to	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering	of drainage systems	nydraulics, including	but not limited to	
Brief Explanation of Responsibilities Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	of drainage systems n) ering REGIS	nydraulics, including TRATION (Type, Yea	ır, State)	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engine MEMBERSHIP IN PROFESSIONAL	of drainage systems n) ering REGIS 1983 H	TRATION (Type, Yea Professional Enginee	ır, State) r, PA, WV	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS 13. PERSONAL HISTORY STATEMENT LANDFILL CLOSURE DESIGN NAME & TITLE (last, first, middle Int.)	of drainage systems n) ering REGIS 1983 F OF PRINCIPALS AND	TRATION (Type, Yea Professional Enginee ASSOCIATES RESPO	or, State) r, PA, WV ONSIBLE FOR	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	of drainage systems n) ering REGIS 1983 I	TRATION (Type, Yea Professional Engineed ASSOCIATES RESPO	or, State) r, PA, WV ONSIBLE FOR	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engineering M.Eng. 1978 Environmental Engineering MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS 13. PERSONAL HISTORY STATEMENT LANDFILL CLOSURE DESIGN NAME & TITLE (last, first, middle Int.) Bria, R. Scott Senior CAD Designer Brief Explanation of Responsibilities Mr. Bria will be responsible for activitions	of drainage systems n) ering REGIS 1983 F OF PRINCIPALS AND YE YEARS OF LANDFILL CLOSURE DESIGN EXPERIENCE: 15	TRATION (Type, Yea Professional Enginee. ASSOCIATES RESPO EARS OF EXPERIENCE YEARS OF LCAP EXPERIENCE: 15	ONSIBLE FOR EE YEARS OF QA/QC EXPERIENCE: 15	
Mr. Frech will provide expertise in the stormwater management and modeling EDUCATION (Degree, Year, Specializatio B.S. 1977 Civil Engineering M.Eng. 1978 Environmental Engine MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS 13. PERSONAL HISTORY STATEMENT LANDFILL CLOSURE DESIGN NAME & TITLE (last, first, middle Int.) Bria, R. Scott	of drainage systems n) ering REGIS 1983 H OF PRINCIPALS AND YE YEARS OF LANDFILL CLOSURE DESIGN EXPERIENCE: 15 es that will include development of p n)	TRATION (Type, Yea Professional Enginee. ASSOCIATES RESPO EARS OF EXPERIENCE YEARS OF LCAP EXPERIENCE: 15	ONSIBLE FOR YEARS OF QA/QC EXPERIENCE: 15	

13. PERSONAL HISTORY STATEMENT LANDFILL CLOSURE DESIGN	OF PRINCIPAL	S AND A	SSOCIATES RESPO	ONSIBLE FOR		
NAME & TITLE (last, first, middle Int.)			ARS OF EXPERIENC	CE		
Queen, Terry W.	YEARS OF LA	NDFILL	YEARS OF LCAP	YEARS OF QA/QC		
Senior Technician	CLOSURE DESIGN		EXPERIENCE: 20	EXPERIENCE: 20		
	EXPERIENCE: 20					
Brief Explanation of Responsibilities	Brief Explanation of Responsibilities Mr. Queen will be responsible for collecting field data including but not limited to water sam					
borrow samples, refuse samples, and ve		ipping. M	ir. Queen will provid	ae construction		
monitoring and administration services.						
EDUCATION (Degree, Year, Specialization						
1986 Math and Physical Education Cla	sswork					
1992 Drafting and Design						
MEMBERSHIP IN PROFESSIONAL		REGIST	RATION (Type, Yea	r. State)		
ORGANIZATIONS			Nuclear Densomete			
			H Portland Cement			
		Compa		Concrete and		
13. PERSONAL HISTORY STATEMENT	OF PRINCIPAL			NSIRLE FOR		
LANDFILL CLOSURE DESIGN	or ridiven at	<i>D 1</i> 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SOCHTES RESI	MSIDLE FOR		
NAME & TITLE (last, first, middle Int.)		YEA	ARS OF EXPERIENC	CE		
Green, Jason T.	YEARS OF LA	NDFILL	YEARS OF LCAP EXPERIENCE: 15	YEARS OF QA/QC		
Senior Project Specialist	CLOSURE DES			EXPERIENCE: 15		
J I	EXPERIENCE:	15				
Brief Explanation of Responsibilities				<u> </u>		
Mr. Green will be responsible for activi	ties that will ind	clude dev	elopment of project	drawings,		
transferring survey data to project plan.	s, and developn	nent of pr	oject plans and deta	ails. He will also		
assist the Project Engineers and Manag	•					
EDUCATION (Degree, Year, Specialization	n)			_		
A.S., 2002, Engineering Technology)					
n.s., 2002, Engineering Technology						
MEMBERSHIP IN PROFESSIONAL		REGIST	RATION (Type, Yea	r, State)		
ORGANIZATIONS		NICET Level I & II				
Society of Military Engineers						
13. PERSONAL HISTORY STATEMENT	OF PRINCIPAL	S AND A	SSOCIATES RESPO	ONSIBLE FOR		
LANDFILL CLOSURE DESIGN	1	VE	ADC OF EXPEDIENC	YE.		
NAME & TITLE (last, first, middle Int.)	VEADCOELA		ARS OF EXPERIENC			
Fuller, Jayme.	YEARS OF LA CLOSURE DES			YEARS OF QA/QC		
Assistant Environmental Manager	EXPERIENCE:		EXPERIENCE: 0	EXPERIENCE: 0		
Dui-CE14iCD	EXI EXIENCE.	-				
Brief Explanation of Responsibilities	1:	11				
Ms. Fuller will be responsible for provide						
limited to wetland delineation, benthic s	tudies, wetland	restorati	ion or mitigation, en	idangered species		
and stream restoration.						
EDUCATION (Degree, Year, Specialization	n)					
B.S. Natural Sciences, Ohio State Un						
MEMBERSHIP IN PROFESSIONAL		REGIST	RATION (Type, Yea	r, State)		
ORGANIZATIONS			Restoration Progra			
Ohio Oil and Gas Association			d Delineation Traini			
		,, Suance	conconton irani			

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE THE LANDFILL CLOSURE DESIGN.				
Equipment: Plotters Software: AutoCAD / Civil 3D				
Troxler Nuclear Density Gauge	MicroStation			
Digital Cameras	Microsoft Office Suite			
Photocopiers/Printers/Scanners	Sewer CAD			
Surveying Stations	Water CAD			
GPS Units	Hydrocalc Hydraulics			
	TR-55			
	Numerous Hydrology/Hydraulic Models			
Maptech (Professional)				
Slope/W (Slope Stability)				
	Google Earth			
	GeoPack Design			
	Hydraulic Evaluation of Landfill Performance (HELP)			

	VITIES ON WHICH YO H OR RELATING TO L				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE YOUR FIR RESOPNSIB	OF RM'S	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Possum Point Ash Impoundment Closure	Dominon Energy 5000 Dominion Blvd Glen Allen, VA 23060	Design of cap system for impoundment closure, construction		\$80 Million	Permit/Design 80% Construction 10%
John Amos CCR Landfill	Gary Zych American Electric Power 1 Riverside Plaza Columbus, OH 43215	Design Permi and Construc Monitoring	itting	\$10 million	Permit 100% Construction 90%
Chesterfield Ash Impoundment Closure	Dominon Energy 5000 Dominion Blvd Glen Allen, VA 23060	Design of cap system for impoundment closure,		\$40 Million	Permit/Design 60% Construction 0%
TOTAL NUMBER C	F PROJECTS:			L ESTIMATED CONST	
# 3			\$ <u>130</u>	Million	

				A SUB-CON	SULTANT TO OTHERS
) LANDFILL CLOSURI				
PROJECT	NATURE OF	NAME	ESTIMATED	ESTIMA	TED CONSTURCTION
NAME,	FIRMS	AND	COMPLETION		COST:
TYPE, AND	RESPONSIBILITY	ADDRESS	DATE		
LOCATION		OF OWNER		ENTIRE	VOLID EIDMC
				PROJECT	YOUR FIRMS RESPONSIBILITY
None				PROJECT	RESPONSIBILITY
None					
				1	

17. COMPLETED WORK WI'RECORD (List 5 to 7)	THIN LAST 5 YEARS ON WHICH Y	OUR FIRM WAS THE	DESIGNAT	ED ENGINEER OF
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Amigo Portals Raleigh County, WV The scope of work involved providing closure of 19 mine portals with bat gates or mine seals, covering exposed refuse, providing stream realignment and streambank protection, and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit and COE 404 Permit.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$46K (Fee)	2014	YES
Greystone Mine Drainage Monongalia County, WV The scope of work involved design for construction of a collection system using underdrains, a conveyance drainage system, and site reclamation.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$45K (Fee)	2011	YES
Earling Refuse Pile Logan County, WV The scope of work involves seal the mine portal(s), bat gates, providing proper drainage control measures and site reclamation.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$61K (Fee)	2011	YES
Reynoldsville Refuse Harrison County, WV The scope of work involved design for construction of mine portal seals, bat gates, regrading and soil covering refuse areas, subsurface drainage collection, providing proper drainage control measures and providing streambank stabilization.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$100K (Fee)	2012	YES
Laurel Point Strip Monongalia County, WV The scope of work involved design for construction of mine portal seals, backfilling the exposed and dangerous highwalls, regrading and soil covering refuse areas providing proper drainage control measures and providing streambank stabilization.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$80K (Fee)	2012	YES
Cherokee Complex McDowell County, WV The scope of work involved design for construction of structure demolition and	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$44K (Fee)	2012	YES

disposal, regrading and soil covering a refuse areas, subsurface drainage collection, providing proper drainage control measures, natural stream restoration and providing streambank stabilization.				
Lynch Run Highwall Harrison County, WV The scope of work involves providing seals for the collapsed portals, backfilling the highwalls, reclamation of the refuse pile, and providing proper controlled drainage including natural stream design. Construction plans and technical specifications were developed.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$50K (Fee)	2010	YES
Wheatley Branch (Luthy) Portals Logan County, WV The scope of work involved several locations of abandoned trash piles, access road construction, twenty-nine (29) mine seals and providing proper drainage control measures. We also prepared and obtained a Stormwater NPDES Permit, WVDOH MM-109 permits and a non-reporting nationwide COE 404 permit.	West Virginia Division of Environmental Protection, Abandoned Mine Lands Program Charleston, West Virginia	\$75K (Fee)	2013	YES

18. COMPLETED WORK WITHIN LAST 5 YEARS IN WHICHYOUR FIRM HAS BEEN A SUBCONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK WHICH YOUR FIRM WAS RESPONSIBLE) LIST 5 TO 7.

RESPONSIBLE					
PROJECT	NAME AND	ESTIMATED	YEAR	CONSTRUCTED	FIRM
NAME,	ADDRESS	CONSTRUCTION		(YES OR NO)	ASSOCIATED
TYPE AND	OF OWNER	COST OF YOUR			WITH
LOCATION		FIRM'S PORTION			
None					
Tronc					

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the WV Department of Environmental Protection.

In summary:

- GAI's staff stays up-to-date on solid waste technologies and trends. We bring the experience of industrial, government and commercial solid waste projects to this endeavor.
- GAI has a large staff of engineers, designers, surveyors, geologists, and scientists that have extensive experience with landfill closure design and LCAP.
- GAI has been very involved in keeping up with the recent EPA regulations on Coal Combustion Residual (CCR) facilities. Many aspects of the design and construction of CCR landfill and impoundment closures are similar to municipal solid waste facilities.
- GAI's staff for the project is located within 10 minutes of WVDEP's office in Charleston.
- GAI's listed staff is available to start on this work immediately.

Please see attached "Brief Firm History and Experience" for more details of qualifications.

20. The foregoir	ig is a	statem	ent o	racts
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Signature:

Title:

Engineering Manage

Printed

Name: Ch

Charles F. Straley

Date: November 12, 2015

BRIEF FIRM HISTORY AND EXPERIENCE

INTRODUCTION

GAI Consultants, Inc., (GAI) proposes to provide engineering services to the West Virginia Department of Environmental Protection, Landfill Closure Assistance Program (WVDEP - LCAP). These services will result in the development of mapping, engineering drawings, contract specifications, and other contract documents for the leachate management and closure cap as may be required for the letting of construction project for the Elkins-Randolph County Landfill.

The highlighted sections following are:

- Bidders Experience
 - Surveying and Mapping
 - Subsurface Investigation
 - Laboratory Services
 - Site Characterization, Design Engineering and Contract Document Preparation
 - Qualifications of Personnel
- Corporate Specialized Experience and Demonstrated Experience
- Management Plan and Location of Facilities

GAI's Charleston, West Virginia and Bridgeport, West Virginia offices are exceptionally well qualified to provide the State with the above referenced services. GAI's Charleston office has a staff of **four Professional Engineers**, **one Professional Surveyor**, and a team of geologists/hydrologists, environmental scientists, biologists, technicians, CADD designers, estimators, landscape architects, secretaries, and field technicians. GAI's Charleston office has served the WVDEP on previous LCAP open-end contracts from 1993 to the present. These projects have included:

- Leachate analysis;
- Ground water investigations;
- Surface water investigations and analyses;
- Site characterizations:
- Gas monitoring plans;
- LCAP-2000 system update;
- Leachate collection, treatment and disposal systems;
- Cap (clay and synthetic) designs;
- Storm water control; and
- Quality assurance and quality control.

GAI provided site characterization, closure design and QA/QC services for the Kanawha Western, Central West Virginia Refuse, Fayette County, Mingo County, Berkeley County and Wheeling Landfills for the LCAP program.

GAI also provides engineering services to the landfill industry including:

- Siting and Feasibility Studies;
- Environmental Assessments;
- Permit Applications;
- Detailed Facility Design;
- Plans and Specifications;
- Geotechnical, Hydrogeologic, and Water-Quality Investigations;
- Water-Quality Statistical Analyses;
- Ground Water Sampling and Analyses;
- Wetland and Ecological Studies;
- Develop Recycling Programs;
- By-product Marketing Studies;
- Construction Monitoring and Certifications;
- Community Relations; and
- Government Liaison.

As a result of this experience, GAI will provide the required expertise to complete landfill closure projects in a timely, economical, and efficient manner and will only require minimal subconsultants to be utilized on this project. Our direct knowledge of the LCAP program guidelines and personnel will also benefit the State.

GAI will perform the work under this contract in our **Charleston**, **West Virginia** office. GAI also has an office in **Bridgeport**, **West Virginia** which has staff available that can provide services needed at the site.

BIDDER EXPERIENCE

GAI Consultants, Inc., provides consulting services in geotechnical engineering, civil engineering, environmental engineering, mining-related design engineering, geology, hydrogeology, environmental science, economics, transportation systems and land-use planning, urban and site engineering, structural engineering, engineering mechanics, agronomy, anthropology and archaeology, and various related professional disciplines. The firm has experienced steady growth in both size and capabilities; and for the past seventeen years has been **rated among the top 500 engineering** and environmental firms in the nation by Engineering News Record (ENR).

GAI Consultants, Inc., is a full service civil, environmental engineering firm headquartered in suburban Pittsburgh, Pennsylvania, with offices in Charleston and Bridgeport, West Virginia; Philadelphia, Pennsylvania; Cincinnati, Ohio, Ft. Wayne, Indiana; Orlando and Jacksonville, Florida; and Richmond, Virginia and several other offices. Established in 1958, GAI and its subsidiaries comprise an organization of over 950 engineers, scientists, and support personnel. With our surveying services and competent staff of professionals, GAI offers a comprehensive approach to engineering problems requiring a wide range of interdisciplinary skills. In the past 57 years, we have designed and monitored the construction of numerous facilities and have conducted thousands of related geotechnical and hydrological investigations, many of which involved siting, design, and closure of landfills. By successfully completing so many reclamation

projects, GAI has obtained "expertise" status on an international basis for many types of projects.

GAI's Charleston, West Virginia office opened in 1985. Since opening, our Charleston office has experienced steady growth. Currently, the Charleston office has three registered professional engineers and other experienced disciplines on staff. Clients served by the Charleston office include solid waste authorities; mining and industrial companies; federal, state, and local governmental agencies; engineers and architects; and private developers.

GAI has successfully served the WVDEP on previous LCAP contracts from 1993 to the present. We propose to utilize most of the same Charleston and Pittsburgh staff, supported with staff from our Bridgeport office. See attached CCQQ.

Surveying and Mapping

To provide cost efficient and timely services for this contract, surveying services will be conducted by GAI's in-house surveyors. GAI routinely performs the following types of surveys which are relevant to the work associated with this type of project.

- Aerial mapping control surveys including horizontal and vertical control and reference monuments,
- Topographic and planimetric surveys,
- Construction surveys including work layout staking, establishment of baselines and cross sections, profiles, etc.,
- Construction quantity measurement surveys,
- Detailed as-built documentation surveys,
- Property surveys including both surface and mineral estates,
- Oil and gas surveying, and
- ALTA Surveys.

GAI presently operates several survey crews. GAI has made a commitment to provide timely surveying services.

GAI's survey crew utilizes Total Stations and GPS surveying equipment. This is complimented by data collectors and Autocad workstations to generate plan views, profiles, cross sections and other engineering drawings. These CAD-generated drawings can then be utilized by GAI's CAD-drafting/design department for design using the Civil 3D software.

All surveys conducted by GAI are completed under the supervision of a West Virginia licensed land surveyor. Surveying will also be performed under the general direction of a West Virginia registered professional engineer, the GAI project engineer and project manager. All surveys and mapping are completed to the standards as outlined by the National Map Standards, as well as other applicable quality standards to include LCAP specifications.

Subsurface Investigation

Subsurface investigations will be required to obtain information for site characterization (e.g. waste limits, potential borrow areas, etc.) and closure design, installation of monitoring wells, and foundations for a leachate tank, if necessary. We have relationships with several drilling firms to provide an economical and available contractor to complete the project. Borrow area investigations will be conducted by GAI personnel, as has been the case in past projects.

Laboratory Services

GAI operates a soils and materials laboratory in our Philadelphia, Pennsylvania office. We also utilize local soils laboratories for a small quantity testing.

We have the capability to analyze natural materials such as soil and rock, manufactured materials such as concrete and steel, and industrial waste materials. The soils and industrial waste analysis capabilities include classification tests, moisture content, grain size analysis, Atterberg limits, specific gravity, unit weight determinations, and chemical analyses. The characteristic test capabilities include relative density equipment for sample particle sizes to 3 inches in diameter; apparatus for constant- and falling-head permeability measurements in both horizontal and vertical directions, and for moisture-density relationships for both modified and standard densities. The compressibility of materials can be determined in a 2.5-inch diameter, one-dimensional consolidometer or a 2.5-inch diameter, one-dimensional Anteus consolidometer with back pressure and pore pressure capability. Also, volumetric consolidation can be determined isotropically or anisotropically. The strength parameters of soils and industrial waste materials can be determined by unconfined compression, direct shear, or triaxial shear tests. The rock-testing capabilities include classification by visual inspections and petrographic analysis, unconfined compression, direct shear, and triaxial shear tests. GAI also maintains several nuclear densometer testing gauges and appropriate NRC licensure to monitor field compaction.

Site Characterization, Design Engineering and Contract Document Preparation

GAI has extensive experience in site characterization, design engineering and the preparation of contract documents for landfill closures. GAI prides itself in development of **simple**, **yet innovative**, **cost-efficient designs** that are easily implemented in the field during construction. Our experience gained on various types of West Virginia LCAP projects during the past 22 years will ensure this quality engineering continues.

GAI has prepared construction packages for WVDEP-LCAP since 1993. GAI is completely familiar with WVDEP's guidelines for preparing construction drawings, technical specifications, and supporting documents. We are able to draw on a large collection of typical construction details contained within our computer aided drafting (CAD) library for the above types of LCAP projects. GAI also has various master specifications which we are able to draw from to create project specific specifications.

During the design engineering phase of our projects, GAI develops alternatives for the landfill closures and schedules meetings with WVDEP-LCAP to review options and select a mutually acceptable plan. We feel that this approach results in a more workable plan at an ultimately lower cost. We also perform a constructability review of each construction package by technical staff familiar with proposed methods of construction. This review also expedites the overall reclamation plan.

QUALIFICATIONS OF PERSONNEL

GAI has a staff of over 950 engineering, environmental and technical support personnel. GAI's staff is particularly well suited to investigate problems associated with landfill closures. We propose to utilize a staff of engineers, geologists, biologists, surveyors, estimator, designers, and CADD operators to conduct the investigatory and design work backed by a group of management professionals. The primary team anticipated for this work includes;

- **Mr. Charles F. Straley, P.E., P.S.** will serve as a Project Manager. Mr. Straley has managed and participated in the design and development of landfill design and studies for over 10 projects for the WVDEP, LCAP Program. Mr. Straley has a complete understanding of WVDEP LCAP guidelines, specifications, and project expectations.
- **Mr. Kenneth W. Kinder, P.E., CFM** will serve as a Project Engineer. Mr. Kinder has 15 years of engineering experience which has included the design, permitting and construction monitoring of landfill expansions and the placement of capping systems in West Virginia. Mr. Kinder has participated in the design, permitting and construction of the closure of Fleming Landfill and Jackson County Landfill. Mr. Kinder also assisted with hydraulic design for a portion of the Elkins Landfill. Mr. Kinder has also prepared closure plans and has assisted with construction monitoring and construction management for various industrial landfills, CCR facilities, and environmental remediation sites.
- Mr. John R. Klamut, P.E., CFM will serve as a Project Engineer. Mr. Klamut is a Professional Engineer who specializes in permitting, design, and construction of landfill facilities. Mr. Klamut has 15 years of experience with landfill design and has served as Project Manager for the design, permitting and/or construction of over 10 municipal solid waste and industrial landfills in West Virginia, Virginia, Arizona and California. Mr. Klamut will utilize his experience working on landfill facilities in West Virginia, Virginia, Pennsylvania, Arizona, California and Utah in the solid waste, mining and power generation industries to provide expertise and innovative solutions for this project. Mr. Klamut's landfill experience includes the permitting of new solid waste landfill facilities, the permitting of solid waste landfill expansions, the permitting and design of a solid waste landfill mining project, and the design of new landfill cells and closures. Mr. Klamut's solid waste experience also includes construction oversight of new disposal cells, cell closures, lined leachate collection ponds, stormwater ponds, stormwater conveyance channels, downchutes, and landfill mining projects. Mr. Klamut's landfill closure experience includes the design and construction oversight of low permeability soil caps, evapotranspiration soil caps, and geomembrane caps with soil cover and geosynthetic drainage layers.
- **Mr. R. Scott Bria** will serve as the senior CAD designer. Mr. Bria has 15 years of experience with landfill design including the Fleming landfill within the LCAP system. Mr. Bria has extensive knowledge in the use of CAD software for developing grading plans and earthwork quantities. Mr. Bria served as the primary QA/QC construction oversight for closure of the Fleming Landfill.
- **Mr. Terry W. Queen** will serve as the primary QA/QC personnel. Mr. Queen has provided QA/QC services on five LCAP projects and performed fieldwork on several other LCAP projects. Mr. Queen has a complete understanding of WVDEP-LCAP guidelines, specifications, and project expectations. He has a good working relationship with LCAP staff.

All have relevant direct experience with site characterizations, grading/drainage, leachate management, surface and ground water issues, and preparation of construction documents.

A team of staff engineers, geologists/hydrologists, environmental scientists, biologists, technicians, CADD operators, word processor operators, secretaries, and designers will provide the expertise and manpower to complete the project. For special needs we can call on planners, land use specialists, natural resource specialists, soil scientists, archaeologists, architectural historians, and structural and material engineers.

CORPORATE SPECIALIZED EXPERIENCE AND DEMONSTRATED ABILITIES

GAI has provided a wide variety of services to governmental agencies and industry related to landfill design and closure.

In addition we have performed similar services for other agencies and sections of the WVDEP and other state and federal agencies including;

- Open End and Specific Contracts for design of Abandoned Mine Lands (AML) Reclamation and Acid Mine Drainage (AMD) sites throughout West Virginia,
- Numerous projects for the Office of Surface Mining, and Reclamation and Enforcement (ASMRE) throughout Kentucky and Pennsylvania,
- Numerous projects for Ohio Division of Natural Resources,
- Multiple landfill sites for electric generation companies for disposal of Coal Combustion Residuals (fly ash, bottom ash, and gypsum). This has included assessment, design and permitting in West Virginia and other states.

MANAGEMENT PLAN & LOCATION OF FACILITIES

Management Plan

GAI's proposed project management plan is presented on Figure 1. The work will be performed in **GAI's Charleston, West Virginia office** which will allow ready access to the project area. Assistance, if and when needed will be provided by staff located in the Bridgeport, West Virginia and Pittsburgh, Pennsylvania offices of GAI. GAI's Charleston location is also less than 6 miles from the WVDEP's Charleston Headquarters.

GAI's professional, technical and support staff have extensive experience on LCAP and related design projects and are extremely well qualified to serve the WVDEP on this contract. GAI stands ready to commit the personnel and resources required to complete the project in a timely, technically sound and cost efficient manner.

Project Management will be provided by **Charles F. Straley, P.E., P.S.,** as shown in Figure 1. They will be responsible for the day to day management and performance of the project. They will review the work directive and spreadsheet preparation of the scope of work and cost proposal. A written proposal including a detailed cost estimate (manhours and expenses associated with the project) will then be prepared and submitted to the WVDEP for their review. Upon WVDEP's approval of the proposal, the Project Manager will arrange for the start of the work. Included will be project staffing, arrangement and detailing of the scope of services to be provided by GAI, and review of project budget and schedule. The Project Manager will on a daily basis supervise the work in progress and review work products of others at regular intervals and finally prior to submittal to the WVDEP. They will be responsible for maintaining liaison with the WVDEP Project Manager including project status reports, as required. They will be responsible for adherence to the project schedule and budget.

Day-to-day project activities will be performed under the direction of the Project Manager by one of the project engineers (i.e., Kenneth W. Kinder, P.E. or John R. Klamut, P.E.), surveying or environmental staff as shown in Figure 1.

GAI's large experienced staff permits us to respond quickly, provides flexibility, and permits high level input to the project's staff from in house experts. However, our method of staffing projects, as evidenced by our performance on prior projects for WVDEP-LCAP, is to assign a small team with total responsibility for completion of the work to the client's satisfaction and budget. Where necessary the core group can draw on the expertise available within GAI's large and experienced staff.

Project Budget Control

The Project Manager will be responsible for monitoring the project budget. GAI's staff submits electronic time sheets on a weekly basis. All charges including labor hours and other project expenses to a particular project are compiled in our data center. Through our DELTEK accounting system, project managers can review charges to date by Wednesday the following week. In this manner, we can keep close track of our project costs.

Schedule Control

Direct responsibility for schedule control lies with the Project Manager. Initially, the Project Manager will review the work directive schedule requirements to see if they can be complied with 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. In this manner, the Project Manager can make staff adjustments 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.

Location of Facilities

GAI proposes to complete work under this contract in our **Charleston, West Virginia office** with support from our **Bridgeport, West Virginia** office. We feel that our close proximity to the WVDEP's Charleston office and the project area will allow the project to be completed in a timely, efficient manner. The location of the Bridgeport office will provide efficiency for travel to the site for site visits to collect samples, collect survey information, site photos etc.

FIGURE 1

